



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

December 8, 2023

NYS Department of Environmental Conservation
Regional Permit Administrator
Dulles State Office Building
317 Washington Street
Watertown, NY 13601
Email: dep.r6@dec.ny.gov

New York State Department of State
Office of Planning and Development
Suite 1010
One Commerce Plaza
99 Washington Avenue
Albany, NY 12231-0001
Email: cr@dos.ny.gov

US Army Corps of Engineers
Buffalo District
Attn: Regulatory Branch
478 Main Street
Buffalo, NY 14202
Email: LRB.NewYork.RegActions@usace.army.mil

NYS Office of General Services
Bureau of Land Management
39th Floor, Corning Tower
Empire State Plaza
Albany, NY 12242-0001
Email: LandUnderWater@ogs.ny.gov

Re: Horse Island Development
Sackets Harbor State Historic Battlefield – Horse Island State Park
Village of Sackets Harbor, Jefferson County, New York

To whom it may concern,

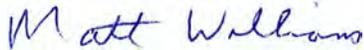
Enclosed please find the completed Joint Application for Permit for the above referenced project. Included is a copy of the project description, site location map, aerial photographs

of the site, site photographs and photo location map, design drawings, the ECOS-IPaC Department of Interior report, Cultural Resources Review, federal consistency assessment form, SEQR Short Environmental Assessment Form with EAF Mapper summary, and Section 401 water quality certification, and pre-filing request.

This application is being submitted simultaneously to the NYS Department of Environmental Conservation, NYS Department of State, US Army Corp. of Engineers, and Office of General Services for review and approval. A copy of this letter will be enclosed for their records.

Please contact me at (315) 948-3707 or matthew.williams@parks.ny.gov if you have any questions or require additional information.

Sincerely,



Matt Williams
Assistant Civil Engineer

Enclosures

Cc: NYSDEC
NYS DOS Coastal Management
USACOE
OGS
P. Taylor
T. Coulibaly
TI-SH-2016-058

New York State Section 401 Water Quality Certification



Department of Environmental Conservation

PRE-FILING MEETING REQUEST FORM

Prospective Applicant Information: DEC ID (if known):

Name of Prospective Applicant: Peyton A. Taylor

Applicant must be property owner, lessee or operator (check which applies).

Email: peyton.taylor@parks.ny.gov Phone: 315-482-2593

Mailing Address: Street: 45165 NYS Route 12, PO Box 247 City: Alexandria Bay State: NY Zip: 13607

Name of Property Owner (if different from prospective applicant): same as prospective applicant

Email: _____ Phone: 315-948-3707

Mailing Address: Street: _____ City: _____ State: _____ Zip: _____

Prospective Application Contact or Contractor (if applicable): Matthew Williams, Assistant Civil Engineer

Email: matthew.williams@parks.ny.gov Phone: _____

Mailing Address: Street 45165 NYS Route 12, PO Box 24 City: Alexandria Bay State: NY Zip: 13607

Project Location (where work will be done): Horse Island and Mainland Property at 444 Ontario Street

Town (where property taxes paid): Hounsfield County: Jefferson

Street Address: 444 Ontario Street, and on Horse Island City: NY State: NY Zip: 13685

Project Name and Description (short description of proposed work, including acreage of US Waters):

Upgrades to buildings and trails on Horse Island; install new utilities from island to mainland via directional drilling; remove old building and construct new caretakers cottage on Mainland and install free-standing dock.

- Attachments** (check each box to indicate that the attachment is provided with this form):
- Project Location Map, **required** (with location marked) Project Drawings & Site Plan, if available
 - Project Site Photos, if available Project SEQR Documents, if available

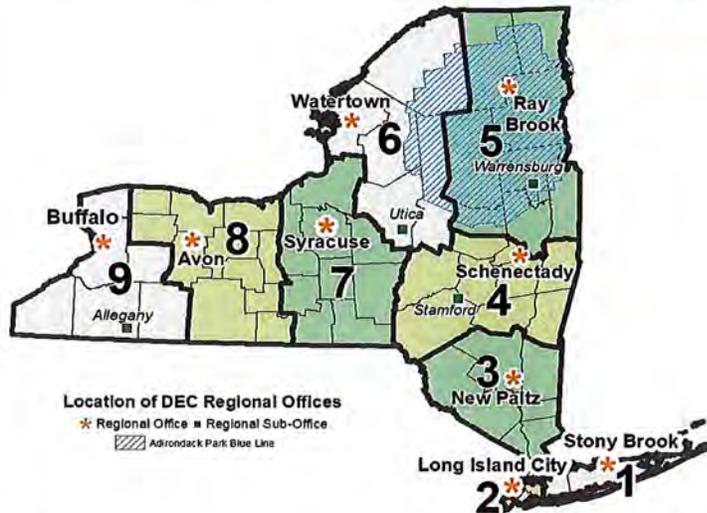
Certification:
 I hereby submit this form and the attachments indicated to request a pre-filing meeting for a Section 401 Water Quality Certification pursuant to 40 CFR §121.4. It is my intent to apply for a Section 401 Water Quality Certification for the project described in these materials, and any other DEC permits that may be required for the project, no earlier than 30 days from the date this pre-filing meeting request has been submitted. I also understand and acknowledge that DEC is not obligated to grant or respond to this request for a pre-filing meeting.

Peyton Taylor 12-8-23
 Prospective Applicant Signature Date Property Owner Signature (if different than applicant) Date

Section 401 Water Quality Certification Pre-filing Meeting Request Form Instructions

To comply with the requirements of US EPA rule on Section 401 Water Quality Certifications (40 CFR §121.4), a pre-filing meeting request must be submitted to the certifying agency at least 30 days before an application for Section 401 Water Quality Certification is submitted to DEC. Once the form on page 1 is completed and the available attachments are compiled, the pre-filing meeting request must be sent to the DEC Regional Permit Administrator listed below in the DEC region where the project is located.

<https://www.dec.ny.gov/about/39381.html>



Location of DEC Regional Offices

* Regional Office ■ Regional Sub-Office
 Adirondack Park Blue Line

NYS DEC REGION 1

Regional Permit Administrator
 SUNY @ Stony Brook
 50 Circle Road
 Stony Brook, NY 11790-3409
 phone: 631-444-0365
 fax: 631-444-0360
 email: dep.r1@dec.ny.gov
 > For Nassau and Suffolk Counties

NYS DEC REGION 2

Regional Permit Administrator
 1 Hunter's Point Plaza
 47-40 21st Street
 Long Island City, NY 11101-5407
 phone: 718-482-4997
 fax: 718-482-4975
 email: dep.r2@dec.ny.gov
 > For Brooklyn, Bronx, Manhattan,
 Queens and Staten Island

NYS DEC REGION 3

Regional Permit Administrator
 21 South Putt Corners Road
 New Paltz, NY 12561-1620
 phone: 845-256-3054
 fax: 845-255-4659
 email: dep.r3@dec.ny.gov
 > For Dutchess, Orange, Putnam,
 Rockland, Sullivan, Ulster and
 Westchester Counties

NYS DEC REGION 4

Regional Permit Administrator
 1130 North Westcott Road
 Schenectady, NY 12306-2014
 phone 518-357-2069
 fax: 518-357-2460
 email: dep.r4@dec.ny.gov
 > For Albany, Columbia, Greene,
 Montgomery, Rensselaer, Schenectady
 and Schoharie Counties

NYS DEC REGION 4 Sub-Office

Regional Permit Administrator
 65561 State Highway 10
 Stamford, NY 12167-9503
 phone: 607-652-7741
 fax: 607-652-2342
 email: dep.r4@dec.ny.gov
 > For Delaware and Otsego
 Counties

NYS DEC REGION 5

Regional Permit Administrator
 PO Box 296
 1115 NYS Route 86
 Ray Brook, NY 12977-0296
 phone: 518-897-1234;
 fax: 518-897-1394
 email: dep.r5@dec.ny.gov
 > For Clinton, Essex, Franklin, and
 Hamilton Counties

NYS DEC REGION 5 Sub-Office

Regional Permit Administrator
 232 Golf Course Rd
 Warrensburg, NY 12885-1172
 phone: 518-623-1282;
 fax: 518-623-3603
 email: dep.r5@dec.ny.gov
 > For Fulton, Saratoga, Warren
 and Washington Counties

NYS DEC REGION 6

Regional Permit Administrator
 Dulles State Office Building
 317 Washington Street
 Watertown, NY 13601-3787
 phone: 315-785-2245
 fax: 315-785-2242
 email: dep.r6@dec.ny.gov
 > For Jefferson, Lewis and
 St. Lawrence Counties

NYS DEC REGION 6 Sub-Office

Regional Permit Administrator
 Utica State Office Building,
 207 Genesee Street, Room 1404
 Utica, NY 13501-2885
 phone: 315-793-2555
 fax: 315-793-2748
 email: dep.r6@dec.ny.gov
 > For Herkimer and Oneida Counties

NYS DEC REGION 7

Regional Permit Administrator
 5786 Widewaters Parkway
 Syracuse, NY 13214-1867
 phone: 315-426-7438
 fax: 315-426-7425
 email: dep.r7@dec.ny.gov
 > For Cayuga, Onondaga,
 Oswego, Broome, Chenango,
 Cortland, Madison, Tioga and
 Tompkins Counties

NYS DEC REGION 8

Regional Permit
 Administrator 6274 East Avon
 - Lima Road Avon, NY
 14414-9519
 phone: 585-226-5400
 fax: 585-226-2830
 email: dep.r8@dec.ny.gov
 > For Chemung, Genesee, Livingston,
 Monroe, Ontario, Orleans, Schuyler,
 Seneca, Steuben, Wayne and Yates
 Counties

NYS DEC REGION 9

Regional Permit Administrator
 700 Delaware Avenue
 Buffalo, NY 14209
 phone: 716-851-7165
 fax: 716-851-7168
 email: dep.r9@dec.ny.gov
 > For Erie, Niagara and Wyoming
 Counties

NYS DEC REGION 9 Sub-Office

Regional Permit Administrator
 182 East Union, Suite 3
 Allegany, NY 14706-1328
 phone 716-372-0645
 fax: 716-372-2113
 email: dep.r9@dec.ny.gov
 > For Allegany, Cattaraugus and
 Chautauqua Counties



Department of
 Environmental
 Conservation

Joint Application Permit Form

Horse Island & 444 Ontario Street

Sackets Harbor, New York

Horse Island Development

December 2023

Applicant: NYS Office of Parks, Recreation and Historic Preservation

Prepared for:

NYS Department of Environmental Conservation
317 Washington Street
Watertown, NY 13601

United States Army Corps of Engineers
1776 Niagara St
Buffalo, NY 14207

NYS Department of State
One Commerce Plaza, 99 Washington Ave
Albany, NY 12231

NYS Office of General Services
Bureau of Land Management
39th Floor, Corning Tower
Albany, NY 12242

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DRAWINGS (In Separate PDF)

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C-002	Notes, Legend and Abbreviations
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C-506	Site Improvement and Planting Details
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Executive Summary

Background and Project Objectives

New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) recently acquired the historic Horse Island, located in the Village of Sackets Harbor, Jefferson County, New York. NYSOPRHP anticipates a multi-phase, multi-year approach to improving the property for patron use. The first phase of the project was for development of two docks on Horse Island. As the second phase of the project, the Island site improvements include rehabilitating the Island buildings, installing a new public day-use restroom building, and improving existing trails to meet ADA requirements. On the mainland parcel, one residential-style dock system and a stacked stone wall will be constructed to provide easy Island access for the NYSOPRHP employed Island caretaker. The existing one-story residential house (Caretaker's Cottage) will be demolished, and a replacement constructed in the same general footprint with improvement to the existing three parking spaces. There will also be improvements to utilities.

Existing Island Site Conditions

The project site is located southwest of Sackets Harbor. The project site spans both Horse Island and the mainland parcel owned by NYSOPRHP, located at 444 Ontario St, Sackets Harbor, NY. Horse Island is approximately 1,000 feet northwest from the mainland parcel, in Lake Ontario, and is approximately 24-acres. This area is currently unused, but historically had been used for seasonal recreation and farming. The site is generally in fair condition and is consistent with the age and historical use as a privately owned, seasonal use recreation and farming activities. Existing trails throughout the Island consist of uneven ground of packed dirt and mowed grass. A natural causeway from the Island nearly connects to the mainland, and access to the Island is available via two ADA compliant boat dock systems that were installed as a part of the previous phase of this project. The causeway is located between Henderson Bay and Black River Bay, with Lake Ontario to the west of the Island. The island dock systems are located at the northeastern and southeastern sides of the Island.

Existing Mainland Site Conditions

The mainland parcel is currently vacant, with an uninhabited one-story residential house and garage. The remainder of the property consists of mowed lawn, a gravel driveway, overhead electric utilities, and municipal sanitary sewer and potable water lines. The property abuts Lake Ontario along its western side, with a rocky shoreline between the lawn and water level.

Mainland and Island Improvements

ISLAND WORK: House/Lighthouse structure: re-point exterior bricks and chimney, provide foundation perimeter drainage stone, replace pressure treated wood deck with ADA ramp, remove vinyl siding to reveal wood siding, replace windows, remodel/update interior, provide bilco door for basement access. Studio structure: convert to a bunkhouse sleeping area with updated inside finishes. Barn structure: stabilize the pole structure where settling has occurred, incorporate employee bathroom. Trails will be improved: ADA portions of the trails will be five foot wide; all other trails will be four feet wide. Grading will be done to take out slight highs and lows in the trails. A 4-inch stone sub-base will be topped with 2 inches of stone-dust. The Coast Guard property will add a new trail. Add single toilet restroom building

with water and electric. Replace Gazebo in-kind in same location. Extend municipal sewer line, water line, and new primary electric conductors beneath the Lake to a pit on the island via directional drilling.

MAINLAND WORK: Demolish Cottage and replace with Caretaker's House in same spot. Run water, sewer, electric together in common trench across property. Install freestanding dock and boat lift system at shoreline for caretaker use.

JOINT APPLICATION PERMIT



JOINT APPLICATION FORM

For Permits for activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

You must separately apply for and obtain Permits from each involved agency before starting work. Please read all instructions.

1. Applications To:
>NYS Department of Environmental Conservation
Check all permits that apply: Stream Disturbance, Dams and Impoundment Structures, Tidal Wetlands, Water Withdrawal, etc.
>US Army Corps of Engineers
Check all permits that apply: Section 404 Clean Water Act, Section 10 Rivers and Harbors Act
>NYS Office of General Services
Check all permits that apply: State Owned Lands Under Water, Utility Easement, Docks, Moorings or Platforms
>NYS Department of State
Check if this applies: Coastal Consistency Concurrence

2. Name of Applicant
Mailing Address, Telephone, Email, Taxpayer ID, Post Office / City, State, Zip
Applicant Must be (check all that apply): Owner, Operator, Lessee

3. Name of Property Owner (if different than Applicant)
Mailing Address, Telephone, Email, Post Office / City, State, Zip

For Agency Use Only Agency Application Number:

4. Name of Contact / Agent

Mailing Address _____ Post Office / City _____ State _____ Zip _____

Telephone _____ Email _____

5. Project / Facility Name (Horse Island Development) _____ Property Tax Map Section / Block / Lot Number: _____

Project Street Address, if applicable _____ Post Office / City _____ State _____ Zip _____

_____ NY _____

Provide directions and distances to roads, intersections, bridges and bodies of water

Town Village City County _____ Stream/Waterbody Name _____

Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:

Latitude: _____° _____' _____" Longitude: _____° _____' _____"

6. Project Description: Provide the following information about your project. Continue each response and provide any additional information on other pages. **Attach plans on separate pages.**

a. Purpose of the proposed project:

b. Description of current site conditions:

c. Proposed site changes:

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:

f. Is tree cutting or clearing proposed? Yes If Yes, explain below. No

Timing of the proposed cutting or clearing (month/year): _____

Number of trees to be cut: _____ Acreage of trees to be cleared: _____

g. Work methods and type of equipment to be used:

h. Describe the planned sequence of activities:

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

j. Erosion and silt control methods that will be used to prevent water quality impacts:

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:

l. Proposed use: Private Public Commercial

m. Proposed Start Date: Estimated Completion Date:

n. Has work begun on project? Yes If Yes, explain below. No

o. Will project occupy Federal, State, or Municipal Land? Yes If Yes, explain below. No

p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:

q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?

Yes If Yes, list below. No

7. Signatures.

Applicant and Owner (If different) must sign the application. If the applicant is the landowner, the **landowner attestation form** can be used as an electronic signature as an alternative to the signature below, if necessary. Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

Signature of Applicant

Peyton A. Taylor

Date

12-8-23

Applicant Must be (check all that apply): Owner Operator Lessee

Printed Name

Peyton A. Taylor

Title

Regional Director

Signature of Owner (if different than Applicant)

Date

Printed Name

Title

Signature of Contact / Agent

Matthew Williams

Date

12-5-23

Printed Name

Matthew Williams

Title

Project Manager

For Agency Use Only

DETERMINATION OF NO PERMIT REQUIRED

Agency Application Number

(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

Agency Representative:

Printed Name

Title

Signature

Date

JOINT APPLICATION SUPPLEMENTAL PAGES

Joint Application Supplemental Pages

Stabilization of House at Horse Island - Phase II
Horse Island & 444 Ontario St
Sackets Harbor, NY 13685
October 20, 2023
Beardsley #19088

Question 6. Project Description:

a. Purpose of the proposed project:

The purpose of the project is to:

- Re-purpose the existing house/lighthouse into an overnight rental facility;
- Improve the existing studio and barn, and replace the existing gazebo;
 - Improvements to the studio includes a rehab to become an adjunct sleeping space;
 - Improvements to the barn include a staff restroom and general repairs. The barn is intended to be used primarily for storage;
 - The gazebo is intended to be replaced in kind, and improvements include providing an Americans with Disabilities Act (ADA)-compliant ramp;
- Improve existing pedestrian trails to provide ADA and standard access from the existing boat docks to the house/lighthouse;
- Provide a new public Day-Use Restroom. The restroom will be a single-person bathroom building;
- Construct a new boat launch and vertical boat lift to be in compliance with the Americans with Disabilities Act (ADA) on the mainland parcel for Island Caretaker use;
- Provide a stacked stone wall on the mainland parcel to prevent shore erosion around the dock system

b. Description of current site conditions:

The project site is within Horse Island in Sackets Harbor, New York, and a mainland parcel located at 444 Ontario Street, Sackets Harbor, New York. Both the Island and the mainland parcel are owned by the New York Office of Parks, Recreation, and Historic Preservation (NYSOPRHP).

The current site conditions on the Island include the following:

- A lighthouse and attached house, pole barn, a storage building referred to as the “studio”, and a gazebo;
- Two boat docks constructed in 2022 on the island’s eastern shoreline;
- Overgrown agricultural fields that have turned into pastureland;
- Utilities including a domestic well, wastewater disposal system (type and location unknown), and primary and secondary electric with a transformer;
- Pedestrian trails throughout the island consisting of dirt/grass paths;
- With the exception of the area around the lighthouse/house and a couple of other areas around the Island, there are New York State Department of Environmental Conservation

(NYSDEC) and U.S. Army Corps of Engineers (USACE) delineated wetlands around the entire island

The current site conditions on the mainland include the following:

- A single-story residential house, a garage and a gravel driveway;
- Existing site utilities include, overhead electric, sanitary, and potable water;
- Grass lawn;
- A stone shoreline along Lake Ontario

c. Proposed site changes:

The following site improvements are proposed for the project site:

- Day-Use Public Restroom building – single-person bathroom building
- The existing pedestrian trails from the Island’s docking facilities, consisting of dirt/grass paths, will be improved to be in compliance with the Americans with Disabilities Act (ADA) Accessibility Standards. The ADA-compliant pedestrian trails will consist of separation geotextile, overlain by 4 inches of stone subbase and 2 inches of stone dust;
- A ramp and porch improvements to provide ADA access into the lighthouse/house
- A basement door to provide exterior access directly to the house’s basement
- Site utilities, including the following:
 - Primary electric conduit from the mainland;
 - Spare electric conduit from the mainland;
 - Electric transformer;
 - Secondary electric cable from the transformer to the Island’s lighthouse/house, studio, barn buildings, and day-use restroom;
 - Gravity sewer lines from the existing Island house, existing barn, and new day-use restroom building to the new pump station;
 - A 3” HDPE Sanitary force main from the Island pump station to an existing municipal sanitary sewer system on the mainland, east of the mainland parcel;
 - A 3” HDPE potable water force main from the existing municipal potable water system on the mainland to the Island house, barn, and day-use restroom building.

The sanitary force main, water force main, and electric conduits will be directionally drilled across the causeway, from the island to the mainland. The pipes will connect into the municipal system on the mainland. The directional drilling will be a minimum of 6 feet below the bottom of the causeway and will cause no impact to the lakebed or wetlands.

- Trail signs to deter unauthorized entry to the lighthouse/house area from the general public while the house is occupied by renters
- A new ADA-compliant boat launch and vertical boat lift on the mainland parcel for Island Caretaker use. The new boat launch consists of:
 - Two dock sections, each rolling removable 20 foot-long, 4-foot wide aluminum with adjustable heights;
 - A 20-foot long, 4-foot wide aluminum gangway;
 - A permanent concrete abutment;
 - A removable, motorized vertical boat lift.

- A stacked stone wall on the mainland parcel to prevent shore erosion around the dock system in periods of high water.

- d. Types of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill materials, structures below ordinary/mean high water elevation, etc.): site changes:

The structures and fill materials to be installed, including the quantity of materials to be utilized include the following:

Areas	Materials	Within USACE / NYSDEC Wetlands			Within 100' NYSDEC Wetland Buffer			Below IGLD Ordinary High Water Level (247.30')			Total		
		Quantity		Units	Quantity		Units	Quantity		Units	Quantity		Units
		Temporary	Permanent	-	Temporary	Permanent	-	Temporary	Permanent	-	Temporary	Permanent	-
Barge Landing	Stone fill *	0	0	CY	0	0	CY	35	0	CY	35	0	CY
Trails	Subbase Stone	0	50	CY	0	25	CY	0	0	CY	0	75	CY
	Stone Dust	0	25	CY	0	15	CY	0	0	CY	0	40	CY
General	Timber Mats**	2000	0	SF	0	0	SF	0	0	SF	2000	0	SF
	Foundations	0	3	CY	0	1	CY	0	0	CY	0	4	CY
	Archaeology ***	16	0	CY	0	0	CY	0	0	CY	16	0	CY
	Topsoil	0	300	CY	0	500	CY	0	0	CY	0	800	CY
Dock	Concrete Abutment	0	0	CY	0	0	CY	0	18	CY	0	18	CY

* The assumed depth of fill for the barge landing is 1 foot and is anticipated to consist of existing stone material located above the IGLD Ordinary High Water Level (247.30'). Excavated stone used for the barge landing will be placed back to existing conditions following construction.

** Timber mats are anticipated to be 8 feet wide and utilized for 50% of the trail length between the barge landing and the upland area near the Island Studio.

*** Archeology consultant (EDR) anticipates performing up to 60, 1x1 meter excavation units, a maximum of 20 centimeters deep, as part of their archaeological investigation. The actual locations of the excavation units will be determined in the field by EDR in consultation with SHPO. For the purpose of the Joint Application Permit, it is assumed that all excavation units will occur within USACE and NYSDEC wetlands.

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:

The areas of wetlands to be disturbed and/or excavated are shown on the Overall Site and Wetland Boundary Plan, drawing C-101.

The volumes of materials to be removed include:

Temporary (During Construction):

- Wetland Soil Removal – 5,445 square feet (905 cubic yards)
 - Utility trenches (4,800 square feet, 889 cubic yards) – 300 linear feet within wetlands, 500 linear feet in buffer zone
 - Some site utility corridors are located within the proposed trails and are already accounted for as permanent wetland disturbance. All other utilities will be restored to their original soil profiles with vegetation restored. All plantings will be appropriate for the wetlands they are proposed within.
 - Archaeology (645 square feet, 16 cubic yards) – The archaeology work shall occur across the entire project site. However, the entire site is will not be disturbed. The archaeology work consists of approximately 60 explorative excavations, wherein a 1 meter x 1 meter x 20 centimeter area will likely be initially disturbed by hand and then may be disturbed further if items of archaeological significance are found. Initial disturbance is anticipated to be minimal and is approximately 0.26 cubic yards per hole, and approximately 16 cubic yards of total disturbance.

Permanent (Post Construction):

- Wetland Soil Removal – approximately 4,000 square feet (approximately 100 cubic yards)
 - ADA stone dust trial – 3,900 square feet (approximately 75 cubic yards) 6” depth below existing grade
 - Restroom foundation – 95 square feet (approximately 20 cubic yards) 5’ depth below existing grade
- Mainland dock system (within Lake) – 120.50 square feet (36.50 cubic yards)
 - Concrete abutment – 48 square feet (18 cubic yards) 6’x8’x 9.63’ depth below the IGLD Ordinary High Water Level (247.30’)
 - Dock and boat lift footings – 6.66 square feet, 8” x 10” per foot, twelve feet total for the system. Each footing rests on the Lake bottom with 0 feet depth below grade, and the dock system is completely removable, therefore no significant disturbance is anticipated.

g. Work methods and type of equipment to be used:

The following work methods are planned:

- Brush cutting – remove vegetation
- Site excavation – remove in-situ soil
- Earthwork grading, cut and fill

The following equipment is anticipated to be utilized by the contractor:

- Skid steer mounted brush cutter

- Tracked excavators (mini- and mid-sized)
- Front-end loaders
- Plate tampers
- Drill rig and staging mats

h. Describe the planned sequence of activities:

The following is the planned sequence of activities for the project:

- Procure materials
- Install temporary erosion and sediment controls
- Install barge access at northeastern shoreline of Island
- Remove trees, vegetation and topsoil; stockpile topsoil for reuse
- Directional drill utilities across the causeway via the mainland parcel and existing trails
- Construct new day-use restroom
- Route utilities from mainland to island house, studio, barn, and new restroom
- Construct improvements within the lighthouse, house, barn, studio and gazebo
- Improve the pedestrian trails
- Install access signage
- Topsoil and seed vegetated areas on the Island
- Install turbidity curtain on mainland parcel
- Install concrete dock abutment on mainland parcel
- Install dock system and vertical boat lift
- Topsoil and seed vegetated areas on the mainland that may have been disturbed
- Remove the erosion and sediment control

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

The following pollution control methods will be employed at the project site during construction:

- The Contract Documents will require the contractor to submit a Waste Management Plan prior to the start of the Work. The Waste Management Plan will provide an analysis of the trash and waste anticipated to be generated by the project, and it will outline landfill options and alternatives, material handling procedures, transportation, and recycling requirements.
- The contractor will be required by the Contract Documents to remove waste materials and legally dispose of them offsite to maintain the site in clean and orderly condition.
- The contractor laydown and staging areas will be located on the project site outside of any wetland boundaries.
- Recyclable materials will be separated from the waste materials and disposed of in a timely manner.
- Burning of materials will be prohibited.
- Concrete washouts will be utilized.

j. Erosion and site control methods that will be used to prevent water quality impacts:

The following erosion and sediment control methods will be utilized in accordance with the NYSDEC's New York State Standards and Specifications for Erosion and Sediment Control:

- Stabilized construction entrances (mainland area)
- Silt fence

- Temporary construction area seeding
- Rock outlet protection
- Topsoiling
- Permanent construction area planting
 - Plantings and seed mixes to be acceptable vegetation for wetland areas
 - Fertilizer and herbicide use is prohibited
- Turbidity curtain
- Temporary timber construction mats (Island site)

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts.

Due to the size and extent of the existing wetlands within Horse Island; required separation distances from the potable water line to sanitary sewer lines; and a need to route potable water, sanitary waste, and electrical utilities, no feasible alternatives exist to meet the project's objectives.

To minimize impacts on the regulated wetlands, the following will be utilized:

- Minimize grading to greatest extent possible;
- Minimize ground disturbance by only improving trails necessary for ADA compliance (trails from the existing Island dock to the House/Lighthouse);
- Utilize directional drilling beneath the causeway to route necessary utilities to and from the mainland parcel;
- Utilize and improve the existing pedestrian trails to limit the amount of ground disturbances;
- Utilize suitable erosion control measures;
- And utilize timber construction mats (for temporary Island construction access)
 - All Island work is limited to the delineated Upland areas or the existing trail corridors. As a part of the construction access to the island, construction equipment will need to traverse areas of the Island that are not proposed to be disturbed as a part of the project work. In these areas where it is necessary to traverse undisturbed wetlands, timber mats shall be utilized. In any areas where disturbance or compaction unintentionally occurs, the soil and vegetation shall be decompacted and restored to their original conditions.

D-2 SUPPLEMENTAL FORM

APPLICABILITY

1. The construction, reconstruction or expansion of docking or mooring facilities on, in or above state-owned lands under water requires authorization from the New York State Office of General Services. For application requirements contact: New York State Office of General Services, Division of Real Property Planning, Bureau of Land Management, Empire State Plaza, Corning Tower, 26th Floor, Albany, NY 12242. A permit pursuant to Article 15, Title 5 of the Environmental Conservation Law may not be required from the Department of Environmental Conservation in these circumstances.
2. The determination that no permit is required from the New York State Department of Environmental Conservation does not necessarily mean that no permit is required from the United States Army Corps of Engineers. All parties considering constructing projects within the navigable waters of the State should consult directly with the United States Army Corps of Engineers to accurately determine what requirements apply.

INSTRUCTIONS

1. Application shall include four (4) copies of this form, a map showing the facility location, scaled plans, cross-sections and specifications depicting all major structures and the delineated facility perimeters that include a reference point tied to a permanent structure or significant natural features.
2. This application must be accompanied by a New York State Department of Environmental Conservation JOINT APPLICATION FOR PERMIT (95-19-3).
3. Applications shall be submitted to the Regional Permit Administrator at the appropriate office of the Department, as indicated on the JOINT APPLICATION FOR PERMIT.
4. Construction, reconstruction or installation of docking and mooring structures shall NOT be started until a permit authorizing such activity has been issued by the New York State Department of Environmental Conservation.
5. The following definitions as listed in 6 NYCRR Part 608.1 apply.

Docking Facility means any marine, boat basin, marine terminal, and any other areas on navigable waters containing a single structure or a collection of related structures, such as docks, piers, platforms, bulkheads, breakwaters, and pilings, used for the reception, securing, and protection of boats, ships, barges or other water craft.

Mooring means a float, buoy, chain, cable, rope, pile, spar, dolphin or any other device or combination of devices that are anchored or fixed in navigable waters of the state to which a vessel can be made fast.

Mooring Area means a collection of individual moorings located within a definable area of navigable waters of the state and under single private ownership or control.

Perimeter means a boundary of a docking facility or mooring area consisting of a series of connected imaginary lines on a plan or map, encompassing all related structures such as docks, bulkheads, breakwaters, pilings, piers, platforms or moorings and the travel lanes and berthing areas that function together to create a facility or area at which vessels may be docked or moored.

Platform means a generally horizontal, flat surface located in, on or over a waterbody, on which structures can be constructed or any activities can be conducted.

Substantial reconstruction of structures means restoration or rebuilding, involving fifty percent (50%) or more of an existing fixed structure's surface area.

**SEQR DOCUMENTATION
AND
WATER QUALITY CERTIFICATION FORMS**

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information				
Name of Action or Project:				
Project Location (describe, and attach a location map):				
Brief Description of Proposed Action:				
Name of Applicant or Sponsor:		Telephone:		
		E-Mail:		
Address:				
City/PO:		State:	Zip Code:	
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>	YES <input type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ acres				
b. Total acreage to be physically disturbed? _____ acres				
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres				
4. Check all land uses that occur on, are adjoining or near the proposed action:				
5. Urban Rural (non-agriculture) Industrial Commercial Residential (suburban)				
<input type="checkbox"/> Forest Agriculture Aquatic Other(Specify):				
<input type="checkbox"/> Parkland				

5. Is the proposed action, a. A permitted use under the zoning regulations? b. Consistent with the adopted comprehensive plan?	NO	YES	N/A
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? Sackets Harbor 1812 Bicentennial Trail (multi-use recreational trail)	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest Agricultural/grasslands Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor/name: _____ Date: _____ Signature: <u>Matt Williams</u> Title: _____		



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	Yes
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	Yes



Horse Island 06/26/23 .shp file.
Area of work extent on Horse Island, Mainland, and Causeway



IT IS A VIOLATION OF STATE EDUCATION LAW FOR ANY PERSON, UNLESS UNDER THE DIRECTION OF A LICENSED ARCHITECT/ENGINEER TO ALTER THIS DOCUMENT IN ANYWAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATIONS, DATE AND ARCHITECTS/ENGINEERS SIGNATURE. COPYRIGHT © 2015

Architectural Consultant

BEARDSLEY ARCHITECTS + ENGINEERS
5789 WIDEWATERS PKWY
DEWITT, NY 13214



Structural Consultant

BEARDSLEY ARCHITECTS + ENGINEERS
5789 WIDEWATERS PKWY
DEWITT, NY 13214



MEP Consultant

BEARDSLEY ARCHITECTS + ENGINEERS
5789 WIDEWATERS PKWY
DEWITT, NY 13214



Other Consultant

ENVIRONMENTAL DESIGN & RESEARCH
217 MONTGOMERY ST
SYRACUSE, NY 13202

Name of Region:
THOUSAND ISLANDS REGION
KEEWAYDIN STATE PARK
45165 NY-12
ALEXANDRIA BAY, NY 13607
(607) 482-2593

Project Title:
STABILIZATION OF
HOUSE/LIGHTHOUSE

Project Location:
HORSE ISLAND
SACKETTS HARBOR STATE
HISTORIC SITE
SACKETTS HARBOR, NY

Key Plan

65% DESIGN
DEVELOPMENT
SUBMISSION
MARCH 10, 2023

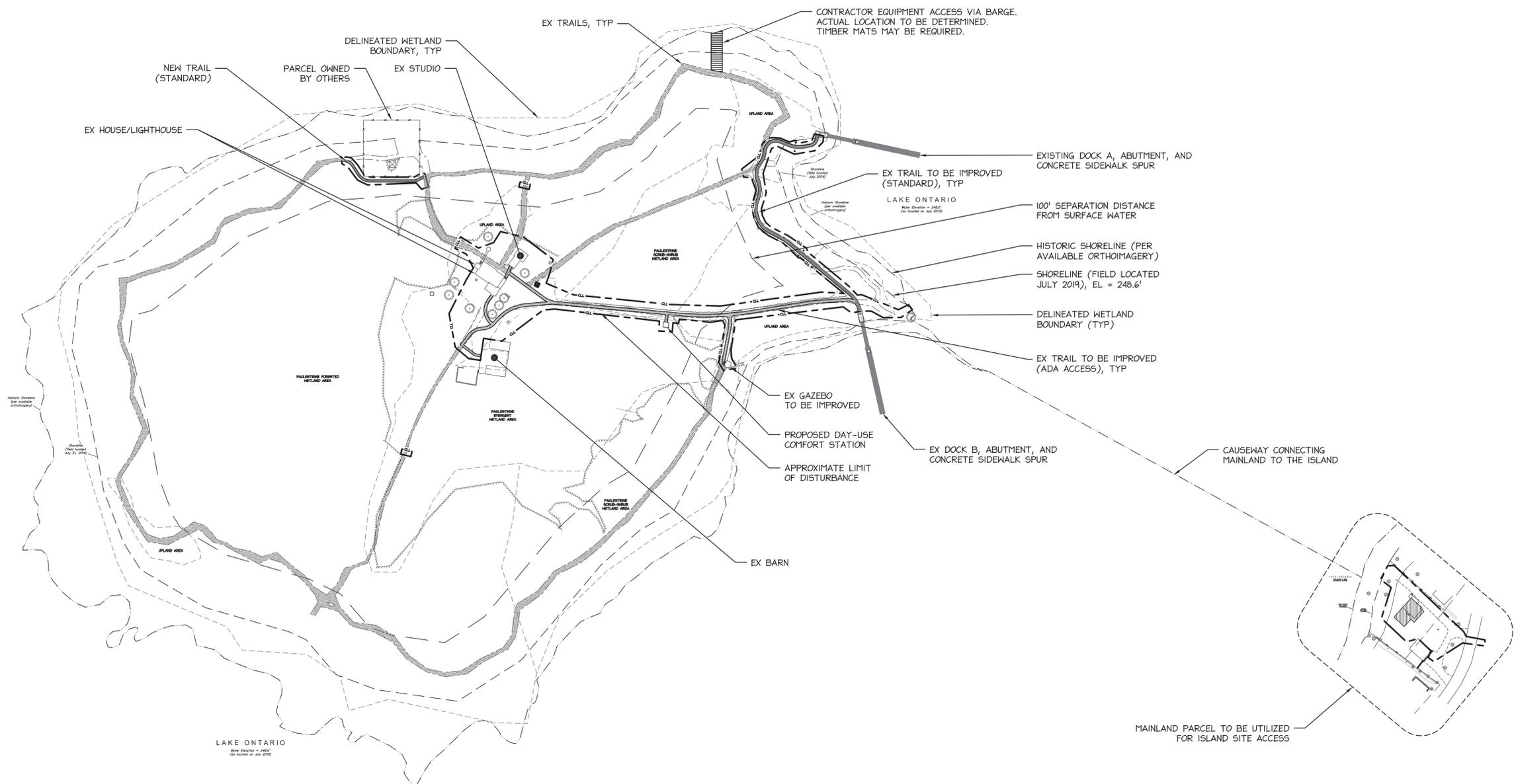
REVISIONS

Rev No	Description	Date

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Design By: AAH	
Checked By: -	
Approved By: -	
Date: -	

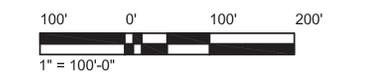
Sheet Title: OVERALL SITE PLAN	Drawing Number: C-101
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Project Number: 19088	Sheet: XX OF XX
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OVERALL SITE PLAN
SCALE: 1"=100'

- NOTES:**
- ALL WORK ON THE DRAWING SHALL BE PERFORMED BY THE GENERAL CONTRACTOR (GCW), UNLESS NOTED OTHERWISE.
 - REFER TO DRAWINGS C-001 AND C-002 FOR NOTES, LEGEND AND ABBREVIATIONS.





DEC ID (if known): _____

Applicant Information:

Name of Applicant (from Joint Application Form): Peyton A. Taylor			
Email: peyton.taylor@parks.ny.gov		Phone: 315-482-2593	
Mailing Address: Street: 45165 NYS Route 12, PO Box		City: Alexandria Bay	State: NY Zip: 13607
Project Location (from Joint Application Form): Horse Island (island parcel) 444 Ontario Street (mainland parcel)			
Town (where property taxes paid): Hounsfield		County: Jefferson	
Street Address: 444 Ontario Street and Horse Island		City: Sackets Harbor	State: NY Zip: 13685

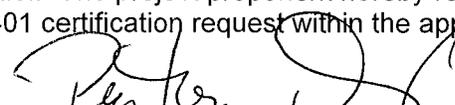
To comply with federal requirements at 40 CFR §121.5(b) for New York State Section 401 Water Quality Certification, all items below must be completed and the applicant must sign page 2 of this form.

1.	By signing this form, the applicant affirms that the project proponent(s) and a point of contact were accurately identified in the Joint Application for Permit provided with this supplement.
2.	By signing this form, the applicant affirms that the proposed project is accurately and completely identified in the Joint Application for Permit provided with this supplement, and in any supporting plans, photos, reports or other project information.
3.	Identify here the applicable federal license or permit for this request: If this request relates to a Section 404 Nationwide Permit administered by the US Army Corps of Engineers, please identify the appropriate Nationwide Permit number(s): NWP 19, 33, 42
4.	Please identify the location and nature of any potential discharge that may result from the proposed project and the location of receiving waters (attached additional information as needed): No discharge is expected.
5.	Please provide a description of any methods and means proposed to monitor the discharge and the equipment or measures planned to treat, control, or manage the discharge (attach additional information as needed): N/A

6.	<p>Please provide a list of all other federal, interstate, tribal, state, territorial, or local agency authorizations required for the proposed project, including all approvals or denials already received:</p> <p>Joint Permit Application with Pre-construction notification from the USACOE. NYSDOS - Federal Coastal Consistency. NYSDEC water quality certification; excavation and fill in navigable waters; docks, mooring and platforms; Freshwater Wetlands. NYS OGS lands under waters, docks, moorings and platforms. LWRP consultation (in-progress). Tribal consultation.</p>
7.	<p>Please indicate the date a Section 401 Water Quality Certification pre-filing meeting request was submitted to DEC and attach a copy of the request to this form. The pre-filing meeting request must have been made at least 30 days prior to submitting application for Section 401 Water Quality Certification.</p> <p>January 24, 2023 - Pre-application meeting with all regulatory agencies (meeting notes attached).</p>
8.	<p>By signing below the applicant is providing the following statement: <i>"The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief"</i></p>
9.	<p>By signing below the applicant is providing the following statement: <i>"The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time."</i></p>

Certification:

In addition to the Joint Application Form provided with this supplement, I hereby submit this form and the attachments indicated to request a Section 401 Water Quality Certification from DEC. The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.



 Project Applicant/Proponent Signature

12-8-23

 Date

COASTAL CONSISTENCY AND POLICY ASSESSMENT

NEW YORK STATE DEPARTMENT OF STATE
COASTAL MANAGEMENT PROGRAM

Federal Consistency Assessment Form

An applicant, seeking a permit, license, waiver, certification or similar type of approval from a federal agency which is subject to the New York State Coastal Management Program (CMP), shall complete this assessment form for any proposed activity that will occur within and/or directly affect the State's Coastal Area. This form is intended to assist an applicant in certifying that the proposed activity is consistent with New York State's CMP as required by U.S. Department of Commerce regulations (15 CFR 930.57). It should be completed at the time when the federal application is prepared. The Department of State will use the completed form and accompanying information in its review of the applicant's certification of consistency.

A. **APPLICANT** (please print)

1. Name: _____
2. Address: _____
3. Telephone: Area Code () _____

B. **PROPOSED ACTIVITY:**

1. Brief description of activity:

2. Purpose of activity:

3. Location of activity:

_____	_____	_____
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: _____

5. Federal application number, if known: _____

6. If a state permit/license was issued or is required for the proposed activity, identify the state agency and provide the application or permit number, if known:

C. **COASTAL ASSESSMENT** Check either "YES" or "NO" for each of these questions. The numbers following each question refer to the policies described in the CMP document (see footnote on page 2) which may be affected by the proposed activity.

- | | |
|---|--------|
| 1. Will the proposed activity result in any of the following: | YES/NO |
| a. Large physical change to a site within the coastal area which will require the preparation of an environmental impact statement? (11, 22, 25, 32, 37, 38, 41, 43) | — — |
| b. Physical alteration of more than two acres of land along the shoreline, land under water or coastal waters? (2, 11, 12, 20, 28, 35, 44) | — — |
| c. Revitalization/redevelopment of a deteriorated or underutilized waterfront site? (1) | — — |
| d. Reduction of existing or potential public access to or along coastal waters? (19, 20) | — — |
| e. Adverse effect upon the commercial or recreational use of coastal fish resources? (9,10) | — — |
| f. Siting of a facility essential to the exploration, development and production of energy resources in coastal waters or on the Outer Continental Shelf? (29) | — — |
| g. Siting of a facility essential to the generation or transmission of energy? (27) | — — |
| h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35) | — — |
| i. Discharge of toxics, hazardous substances or other pollutants into coastal waters? (8, 15, 35) | — — |
| j. Draining of stormwater runoff or sewer overflows into coastal waters? (33) | — — |
| k. Transport, storage, treatment, or disposal of solid wastes or hazardous materials? (36, 39) | — — |
| l. Adverse effect upon land or water uses within the State's small harbors? (4) | — — |
| 2. Will the proposed activity affect or be located in, on, or adjacent to any of the following: | YES/NO |
| a. State designated freshwater or tidal wetland? (44) | — — |
| b. Federally designated flood and/or state designated erosion hazard area? (11, 12, 17) | — — |
| c. State designated significant fish and/or wildlife habitat? (7) | — — |
| d. State designated significant scenic resource or area? (24) | — — |
| e. State designated important agricultural lands? (26) | — — |
| f. Beach, dune or Barrier Island? (12) | — — |
| g. Major ports of Albany, Buffalo, Ogdensburg, Oswego or New York? (3) | — — |
| h. State, county, or local park? (19, 20) | — — |
| i. Historic resource listed on the National or State Register of Historic Places? (23) | — — |
| 3. Will the proposed activity require any of the following: | YES/NO |
| a. Waterfront site? (2, 21, 22) | — — |
| b. Provision of new public services or infrastructure in undeveloped or sparsely populated sections of the coastal area? (5) | — — |
| c. Construction or reconstruction of a flood or erosion control structure? (13, 14, 16) | — — |
| d. State water quality permit or certification? (30, 38, 40) | — — |
| e. State air quality permit or certification? (41, 43) | — — |
| 4. Will the proposed activity occur within and/or affect an area covered by a State-approved local waterfront revitalization program, or State-approved regional coastal management program?
(see policies in program document*) | — — |

D. ADDITIONAL STEPS

1. If all of the questions in Section C are answered "NO", then the applicant or agency shall complete Section E and submit the documentation required by Section F.
2. If any of the questions in Section C are answered "YES", then the applicant or agent is advised to consult the CMP, or where appropriate, the local waterfront revitalization program document*. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by their policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and, (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

E. CERTIFICATION

The applicant or agent must certify that the proposed activity is consistent with the State's CMP or the approved local waterfront revitalization program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable approved local waterfront revitalization program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: Mark Spaulding, P.E. - NYSOPRHP Assistant Regional Director

Address: Keewaydin State Park, P.O. Box 247 Alexandria Bay NY, 13607

Telephone: Area Code () (315) 482-2593

Applicant/Agent's Signature:  Date: 11/13/2023

F. SUBMISSION REQUIREMENTS

1. The applicant or agent shall submit the following documents to the **New York State Department of State, Office of Planning and Development, Attn: Consistency Review Unit, One Commerce Plaza-Suite 1010, 99 Washington Avenue, Albany, New York 12231.**

- a. Copy of original signed form.
- b. Copy of the completed federal agency application.
- c. Other available information which would support the certification of consistency.

2. The applicant or agent shall also submit a copy of this completed form along with his/her application to the federal agency.

3. If there are any questions regarding the submission of this form, contact the Department of State at (518) 474-6000.

*These state and local documents are available for inspection at the offices of many federal agencies, Department of environmental Conservation and Department of State regional offices, and the appropriate regional and county planning agencies. Local program documents are also available for inspection at the offices of the appropriate local government.

New York State Department of State
Coastal Management Program
Federal Consistency Assessment Form Supplemental Pages

Stabilization of House/Lighthouse at Horse Island – Phase II

Horse Island State Park & 444 Ontario Street

Sackets Harbor, NY 13685

July 28, 2023

Beardsley #19088

Additional information as requested per Part D of the New York State Department of State Coastal Management Program- Federal Consistency Assessment Form. The proposed activity is analyzed in more detail with respect to the applicable state and local coastal policies affected by the activity as seen in Section C of the Coastal Assessment.

E. Remarks or Additional Information:

Policy 1. Restore, revitalize, and redevelop deteriorated and underutilized waterfront areas for commercial, industrial, cultural, recreational, and other compatible uses.

The proposed project will restore and revitalize the area through the creation of easier access to historical landmarks on Horse Island, and through upgrades to the existing historic structures on the island that will be available to be rented by the public. The proposed dock at the mainland will allow for a New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) employee to easily access the Island for general caretaking and maintenance upkeep duties that the Island buildings, trails or existing docks on the island may require for continued recreational usage. A stacked stone wall is proposed on the mainland parcel above the Ordinary High Water Level, to reduce erosion of the shoreline during periods of high water.

Policy 2. Facilitate the siting of water dependent uses and facilities on or adjacent to coastal waters.

The subject property is a water dependent use, as it is an island with historic significance requiring access only by boat, kayak, or other water vessel. The proposed dock on the mainland will allow for the Island caretaker to access the Island with ease and maintain the Island historic and public facilities for improved public recreation.

Policy 5. Encourage the location of development in areas where public services and facilities essential to such development are adequate.

The project site is primarily located on Horse Island, the location of the historic Battle of Sackets Harbor. The project is restoring the Island, intended to increase public access and use. The proposed ADA compliant trails will increase accessibility to the Island and historic buildings. The proposed mainland dock will allow for the Island caretaker to have easy access to the Island. The NYSOPRHP Island caretaker will maintain the Island trails and facilities, keeping them suitable and welcoming for public use.

Policy 15. Mining, excavation or dredging in coastal waters shall not significantly interfere with the natural coastal processes that supply beach materials to land adjacent to such waters and shall be undertaken in a manner which would not cause an increase in erosion of such land.

All fill occurring within Lake Ontario below the Ordinary High Water Level (247.30') is proposed on the northeast end of Horse Island and is temporary. Fill is proposed within the water if it is deemed necessary for barge access to the Island during construction. After completion of the project, all fill will be removed in its entirety and the lake bottom will be restored to the existing conditions.

Additional activity within Lake Ontario includes the placement of the proposed mainland parcel dock system. There will be a total of eight 8"x10" dock footings and four boat lift footings for the dock system. The dock and boat lift footings do not penetrate or disturb the lake bottom, and the dock system will be removed during the off seasons. Installation includes only placing the footings on the Lake bottom to support the dock and lift systems.

Policy 19. Protect, maintain, and increase the level and types of access to public water related recreation resources and facilities.

While the dock system is primarily intended to be utilized by NYSOPRHP staff only, the proposed site improvements will improve access to Horse Island by creating a recreational area, accessible to the public by water. Additionally, improvements to the historic buildings and the trails will comply with ADA requirements. The proposed mainland dock will also be ADA compliant and will allow for the Island caretaker to have easy access to the Island. The NYSOPRHP Island caretaker will maintain the Island trails and facilities, keeping them suitable and welcoming for public use.

Policy 20. Access to the publicly-owned foreshore and to lands immediately adjacent to the foreshore or the water's edge that are publicly-owned shall be provided and it shall be provided in a manner compatible with adjoining uses.

The proposed project does not reduce or eliminate any public access within the coastal lands and/or waters. All improvements enhance the existing access by providing safer, ADA compliant pedestrian routes via Island trails, and an ADA compliant dock system at the mainland for Island access.

Policy 21. Water dependent and water enhanced recreation will be encouraged and facilitated, and will be given priority over non-water-related uses along the coast.

The proposed project encourages water enhanced recreation through the restoration of an area of historic significance and improved access to Horse Island. The mainland dock will allow for the NYSOPRHP staff Island caretaker to easily access the Island for routine maintenance and care, and assistance to patrons and the public using the Island for daily recreation.

Policy 22. Development when located adjacent to the shore will provide for water-related recreation whenever such use is compatible with reasonably anticipated demand for such activities, and is compatible with the primary purpose of the development.

Improvements on the island may encourage patrons to use their boats to access the island for water-related recreation.

Policy 23. Protect, enhance and restore structures, districts, areas or sites that are of significance in the history, architecture, archaeology or culture of the State, its communities, or the Nation.

The proposed dock on the mainland parcel will enhance access to Horse Island for OPRHP staff and allow for easy care and maintenance for its significant historic features. The project site played a key role in the War of 1812. The British were defeated after advancing from Horse Island on the Village of Sackets Harbor. A navigational lighthouse was constructed after the war, then reconstructed in 1871 as the structure that stands today. Due to its role in the Battle of Sackets Harbor, Horse Island is a historic site, and due to its age so is the house/lighthouse. Improvements to historic structures will be made in consultation with the Division for Historic Preservation to preserve and protect these historic resources. Additionally, a stacked stone wall is proposed on the mainland parcel above the Ordinary High Water Level, to protect and reduce erosion of the shoreline during periods of high water.

Policy 35. Dredging and filling in coastal waters and disposal of dredged material would be undertaken in a manner that meets existing State permit requirements, and protects significant fish and wildlife habitats, scenic resources, natural protective features, important agricultural lands, and wetlands.

No dredging is proposed within coastal waters, and all fill material and processes shall meet existing New York State regulations. The appropriate best management practices will be utilized and after completion of construction, the fill shall be removed and the impacted area restored to its original conditions. All excavation will occur above the Ordinary high-water level of the Lake Ontario shoreline. The appropriate erosion and sediment control measures will be implemented during construction to minimize erosion and impact of disturbance. Any sediment will be properly disposed of offsite to ensure that no pollutants enter Lake Ontario.

Policy 44. Preserve and protect tidal and freshwater wetlands and preserve the benefits derived from these areas.

The appropriate erosion and sediment control measures will be implemented during construction to minimize erosion and impact of disturbance. Turbidity curtains will be utilized during construction within the Lake below the Ordinary High Water Level to contain any construction disturbances and prevent excess sediment from entering the waters. Timber mats will be utilized in areas where construction equipment needs to cross wetlands boundaries to reach the areas of the project with proposed improvements. All temporarily disturbed areas of wetlands, such as the disturbance for utility routes, will be restored to their original conditions. During project planning and design, wetland disturbance has been reduced to the maximum extent possible by limiting improvements to

upland areas and the existing trail corridors, and by only improving the trails required for ADA compliance. All construction laydown areas are limited to upland areas only. All plantings and vegetative seed mixes shall be appropriate for the wetland classification and no fertilizer or herbicides will be used.

This project complies with these policies or does not impair the implementation of these policies.

FIGURES



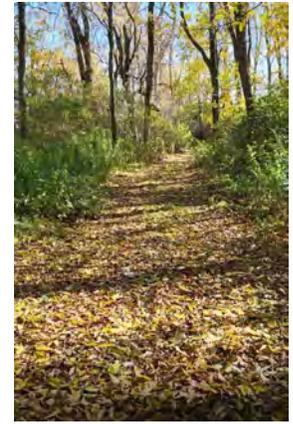
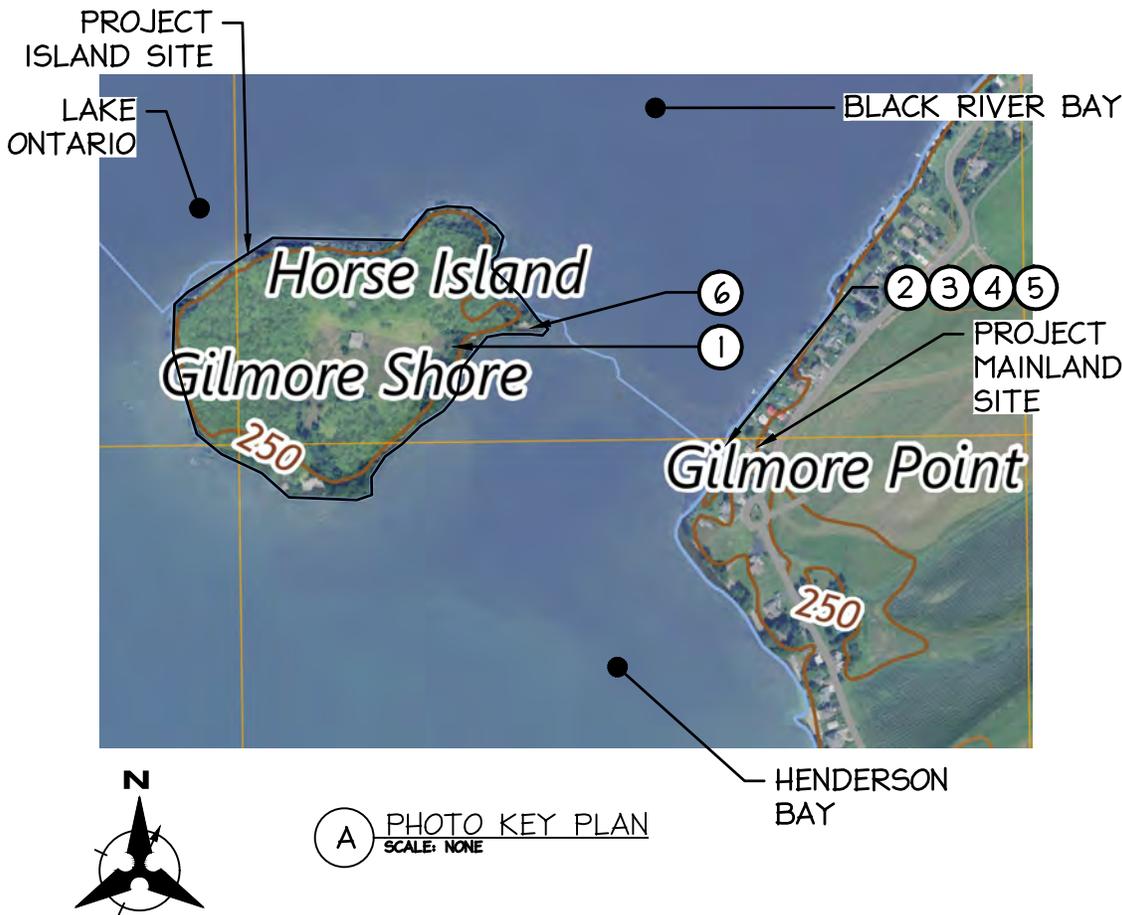
A PROJECT LOCATION PLAN
SCALE: NONE

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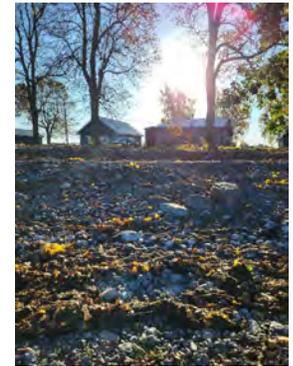
1. DRAWING IS NOT TO SCALE
2. REFERENCE: 7.5-MINUTE TOPO MAP FROM USGS TOPOBUILDER APPLICATION V:1.0.0, [HTTPS://TOPOBUILDER.NATIONALMAP.GOV/](https://topobuilder.nationalmap.gov/)

Sheet Title: PROJECT LOCATION PLAN		Drawing Number: FIGURE 1	
 Governor Kathy Hochul Commissioner Erik Kulleseid	 Architectural Consultant <small>BEARDSLEY ARCHITECTS + ENGINEERS 5789 WIDEWATERS PKWY DEWITT, NY 13214</small>	Project Number: 19088 Drawn By: SAL	Name of Region: Thousand Islands Region 45165 NYS Route 12 Alexandria Bay, NY 13607 (315) 482-2593
		Regional Director Peyton Taylor	Submission: Join Application Permit Package - USACE/NYSDEC Date: 06-30-2023 Project Title: Stabilization of House/Lighthouse at Horse Island - Phase II Project Location: Horse Island & 444 Ontario St Sackets Harbor, NY 13645

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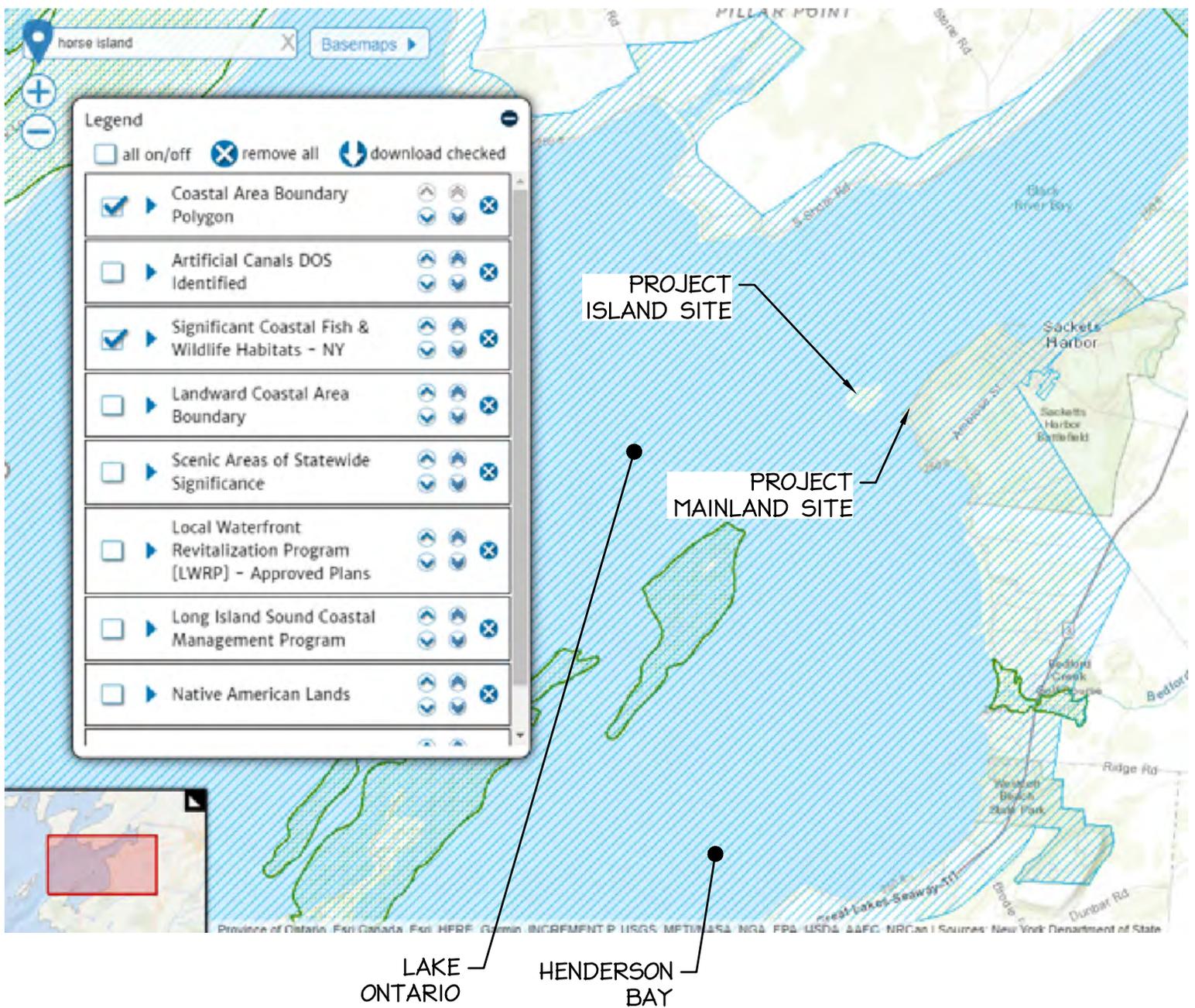
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Sheet Title: SITE PHOTOS		Drawing Number: FIGURE 2	
<p>Governor Kathy Hochul Commissioner Erik Kulleseid</p>		<p>Project Number: 19088 Drawn By: SAL</p> <p>Architectural Consultant BEARDSLEY ARCHITECTS + ENGINEERS 5789 WIDEWATERS PKWY DEWITT, NY 13214</p>	
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A COASTAL AREA BOUNDARY
SCALE: NONE

Sheet Title:
COASTAL AREA BOUNDARY

Drawing Number:
FIGURE 3

Project Number: 19088
Drawn By: SAL

Name of Region:

Thousand Islands Region
45165 NYS Route 12
Alexandria Bay, NY 13607
(315) 482-2593

Submission:

Join Application Permit Package - USACE/NYSDEC

Date:

06-30-2023

Project Title:

Stabilization of House/Lighthouse at Horse Island - Phase II

Project Location:

Horse Island & 444 Ontario St
Sackets Harbor, NY 13645



Governor Kathy Hochul Commissioner Erik Kulleseid



Architectural Consultant

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DEWITT, NY 13214

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WETLAND DELINEATION REPORT

Wetland and Stream Delineation Report

Horse Island Reconstruction

Village of Sackets Harbor

Jefferson County, New York

Prepared for:



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DeWitt, New York 13214
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January 2023

*Wetland and Stream Delineation Report
Horse Island Reconstruction*

Rev. 3/31/2023

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1.0 INTRODUCTION

1.1 PROJECT SITE LOCATION AND DESCRIPTION

At the request of Beardsley Architects + Engineers, Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) investigated an approximately 27-acre site in Village of Sackets Harbor, Jefferson County, New York, hereafter referred to as the "Project Site" (see Figure 1; all Figures are in Appendix A). The Project Site is proposed for the reconstruction of the historic house and lighthouse at Sackets Harbor State Historic Site to make it an overnight destination (the Project). The site is an island within the Black River Bay of Lake Ontario. The majority of the Project Site consists of woody wetlands that surround a maintained herbaceous fields composed primarily of reed canary grass (*Phalaris arundinacea*) that is periodically maintained.

1.2 PURPOSE

The purpose of this study was to delineate and describe on-site wetlands and streams that occur within the Project Site and could potentially fall under state or federal jurisdiction. Specific tasks performed for this study included: 1) review of background resource data/mapping, 2) field delineation and flagging of potential state and federal jurisdictional wetlands and streams, 3) Global Positioning System (GPS) survey of delineated wetland and stream boundaries, 4) quantification of the area of on-site wetlands and streams, and 5) description of potentially jurisdictional areas based on hydrology, vegetation, and soils data collected in the field.

This report describes the results of the wetland and stream delineations conducted by EDR. It is intended to provide the information necessary to presume the jurisdictional status of each resource and support permit applications to the United States Army Corps of Engineers (USACE) and the New York State Department of Environmental Conservation (NYSDEC), as well as other impact evaluations conducted in support of the Project.

1.3 DATA SOURCES

Materials and data supporting this investigation have been derived from a number of sources including United States Geological Survey topographic mapping (Henderson Bay 7.5 minute quadrangle), United States Fish and Wildlife Service National Wetlands Inventory (NWI) mapping, NYSDEC Freshwater Wetlands mapping, the Natural Resources Conservation Service (NRCS) Web Soil Survey (Soil Survey Staff, 2022), the NRCS List of Hydric Soils of the State of New York (NRCS, 2018), the National Land Cover Database (NLCD) land cover and vegetation classes (Yang et al., 2018), and recent aerial photography.

Vascular plant nomenclature and wetland indicator status for plant species were determined by the Wildnote field data collection app, which refers to the USDA PLANTS Database (USDA NRCS, 2021) and the National Wetland Plant List (USACE, 2018). Jurisdictional areas were characterized according to the wetlands and deepwater habitats classification system used in NWI mapping (Cowardin et al., 1979).

2.0 REGULATORY AUTHORITIES AND PERMITS

2.1 WATERS OF THE UNITED STATES

In accordance with Section 404 of the Clean Water Act (CWA), the USACE has regulatory jurisdiction over Waters of the United States (WOTUS). As defined by the USACE, WOTUS include lakes, ponds, streams (intermittent and perennial), tidal waters, and wetlands. Wetlands are defined as *“those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions”* (USEPA, 2001). Such areas are indicated by the presence of three conditions: 1) a dominance of hydrophytic vegetation, 2) the presence of hydric soils, and 3) evidence of wetland hydrology during the growing season (Environmental Laboratory, 1987).

The Clean Water Rule (the “2015 Rule”), effective August 28, 2015, was adopted to provide a clearer and more consistent approach to defining the scope of the CWA and WOTUS. However, in February 2017, an Executive Order was issued directing the United States Environmental Protection Agency (USEPA) and USACE to review and rescind or revise the 2015 Rule. On April 21, 2020, the USEPA and USACE published The Navigable Waters Protection Rule: Definition of “Waters of the United States” (USACE and USEPA, 2020) as a replacement for the 2015 Rule. However, on August 30, 2021, the US District Court threw out the 2020 replacement rule due to procedural errors in its issuance, noting that implementation of the rule could lead to “serious environmental harm” (Pasqua Yaqui Tribe v. USEPA, 2021), thereby restoring the definition of regulated WOTUS to the pre-2015 Rule (i.e., *Rapanos v. United States*, 2006 and *Carabell v. United States*, 2006). Four major elements of the pre-2015 Rule that define jurisdictional waters are summarized as follows:

1. **Traditional navigable waters (TNW).** The agencies will assert jurisdiction over TNW, interstate waters, territorial seas, and impoundments of jurisdictional waters consistent with existing regulations.
2. **Wetlands adjacent to TNW.** The agencies will assert jurisdiction over wetlands adjacent to TNW. Regulations define “adjacent” as “bordering, contiguous, or neighboring, including waters separated from other ‘waters of the United States’ by constructed dikes or barriers, natural river berms, beach dunes and the like.”
3. **Non-navigable tributaries.** The agencies will assert jurisdiction over non-navigable tributaries of traditional navigable waters that are relatively permanent, where the tributaries typically flow year-round or have continuous flow at least seasonally.
4. **Wetlands that directly abut such tributaries.** The agencies will assert jurisdiction over wetlands adjacent to jurisdictional non-navigable tributaries, using the same definition of “adjacent” provided in number 2.

Where waters cannot be categorized as jurisdictional using these criteria, the agencies will conduct a significant nexus analysis to determine jurisdiction on a case-by-case basis. The significant nexus analysis considers waters that are similarly situated to known jurisdictional waters based on their flow characteristics

and functions, to determine if they significantly affect the chemical, physical, and/or biological integrity of downstream TNWs. The following waters may be regulated based on the results of the significant nexus analysis:

- Non-navigable tributaries that are not relatively permanent
- Wetlands adjacent to non-navigable tributaries that are not relatively permanent
- Wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary.

Agencies will typically not assert jurisdiction over swales or erosional features, or ditches excavated wholly in and draining only uplands and that do not carry a relative permanent flow of water.

For the purposes of this investigation, the initial presumption is that all delineated wetlands and streams could be jurisdictional under Section 404 of the CWA. A Section 404 permit from the USACE is required for activities that result in the placement of dredged or fill materials in WOTUS. In addition to Section 404 of the CWA, Section 10 of the Rivers and Harbor Act requires a permit from the USACE to construct any structure in, over, or under any traditional navigable waters of the United States, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials).

2.2 NEW YORK STATE FRESHWATER WETLANDS AND PROTECTED STREAMS

The Freshwater Wetlands Act (Article 24 and Title 23 of Article 71 of the Environmental Conservation Law [ECL]) gives the NYSDEC jurisdiction over state-protected wetlands and adjacent areas. The Freshwater Wetlands Act requires the NYSDEC to map all state-protected wetlands to allow landowners and other interested parties a means of determining where state-jurisdictional wetlands exist. To implement the policy established by this Act, regulations were promulgated by the state under 6 New York Codes, Rules, and Regulations (NYCRR) Parts 663 and 664. Part 664 of the regulations designates wetlands into four class ratings, with Class I being the highest or best quality wetland and Class IV being the lowest. In general, wetlands regulated by the state are those 12.4 acres in size or larger. Smaller wetlands can also be regulated if they are considered of unusual local importance. A 100-foot regulated adjacent area around the delineated boundary of any state regulated wetland is also under NYSDEC jurisdiction. An Article 24 permit is required from the NYSDEC for any disturbance to a state-protected wetland or adjacent area.

Under Article 15 of the ECL (Protection of Waters), the NYSDEC has regulatory jurisdiction over any activity that disturbs the bed or banks of protected streams or other watercourse. In addition, small lakes and ponds with a surface area of 10 acres or less, located within the course of a stream, are considered to be part of a stream and are subject to regulation under the stream protection category of Article 15. According to 6 NYCRR Part 608.1(aa), protected streams include any stream, or portion of a stream, that has been assigned by the NYSDEC any of the following surface water classifications or standards: AA, A, B, or C(T) or C(TS). A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing. The best usages of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing. Streams designated (T) indicate that they support trout, while those designated (TS) support trout spawning. An Article 15 permit is required from the NYSDEC for any disturbance to the bed

and banks of protected streams, with special requirements applied to streams designated as supporting trout or trout spawning. Where banks are not clearly defined, the NYSDEC may extend permitting jurisdiction upland to 50 feet beyond the stream.

In addition to the protection of waters permit required to change, modify, or disturb protected streams, Article 15 also requires a permit from the NYSDEC to construct any structure in or above any navigable waters of the state, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials).

3.0 REVIEW OF BACKGROUND DATA AND MAPPING

3.1 PHYSIOGRAPHY AND SOILS

The Project Site is located within the Ontario Lowlands physiographic province of New York State. The Ontario Lowlands is defined by their proximity to Lake Ontario, which provides a lake effect climate to the region. The soils in the Ontario Lowlands are finely textured due to their limestone and calcareous shale derivative. Much of the region used to be covered by beech and sugar maple forests but has transitioned to dairy and livestock farms. The loamy soil also provides opportune conditions for crop farming (Bryce et al., 2010). Elevations within the Project Site range from approximately 250 to 260 feet above mean sea level and approximately 13 feet above lake level (see Figure 2).

The Web Soil Survey of Jefferson County (Soil Survey Staff, 2020) maps four soil series on site (see Figure 3). Rhinebeck (RhA) is the predominant series occurring within the Project Site. Other soil series mapped on site include Madalin (Ma), Collamer sit loam (CnB) and Beaches (Be). These soils range from somewhat excessively drained to poorly drained, with silt loams soil texture. Table 1 lists the soil series mapped within the Project Site and specific characteristics such as slope, drainage classification, hydric rating, and hydric soil classification. Hydric ratings and hydric soil classifications are based on information obtained from the NRCS Web Soil Survey (Soil Survey Staff, 2020). Although soil series may have a hydric rating in the online databases indicating hydric or potentially hydric conditions, this is for general use and does not supersede specific conditions documented in the field.

Table 1. Project Site Soils

Mapping Unit Symbol	Series	Slope (%)	Drainage ¹	Hydric Rating ²	Hydric Soil ³
Be	Beaches	0-3	SED	13%	No
Ma	Madalin silt loam	0-3	PD	93%	Yes
RhA	Rhinebeck silt loam	0-3	SPD	10%	No
CnB	Collamer silt loam	3-8	MWD	2%	No

¹ Soil drainage is represented by the following abbreviation: "SED" = somewhat excessively drained, "SPD" = somewhat poorly drained, "PD" = poorly drained, and "MWD" = moderately well drained.

² Map units are composed of one or more component soil types, each of which is individually rated as hydric or not hydric. The hydric rating, as provided in the USDA Web Soil Survey, indicates the percentage of the map unit that meets hydric criteria.

Mapping Unit Symbol	Series	Slope (%)	Drainage ¹	Hydric Rating ²	Hydric Soil ³
---------------------	--------	-----------	-----------------------	----------------------------	--------------------------

³ "Yes" indicates that this soil series is listed as containing 66% or more hydric components within the map unit as listed on the USDA Web Soil Survey.

3.2 HYDROLOGY

The Project Site is located entirely within the Lake Ontario watershed 04280002. Most of the surface hydrology within the Project Site is influenced by fluctuating water levels in Lake Ontario that occur during periodic flooding from heavy precipitation or drought conditions. Precipitation and surface water run-off also contributes to surface hydrology within the Project Site. The average annual precipitation from 2002 to 2022 was 46.01 inches near the Watertown AP Station (NOAA, 2022). The on-site wetland delineation took place at the end of the growing season (September 01, 2022) and again on November 25, 2022. Precipitation for the month of September was above average (4.27-inches) compared with the long-term monthly average for September 2002-2022 (3.55-inches). In November, precipitation was well above average (7.82-inches) compared with the long-term monthly average for November 2002-2022 (4.24-inches).

The Project Site is an island in the TNW of Lake Ontario. Lake Ontario has a drainage area of 23,400 square miles (USGS, 2022) and flows east into the Atlantic Ocean via the St. Lawrence River.

3.3 FEDERAL AND STATE-MAPPED WETLANDS AND STREAMS

NWI mapping indicates the presence of three wetland communities within the Project Site, totaling 2.1 acres (see Figure 4). Palustrine (freshwater) open water communities are the only community type mapped within the Project Site. The NWI wetlands are mapped along the shoreline of the island and are generally consistent with the high water mark that surrounds the island.

New York State (NYS) Freshwater Wetlands maps indicated that there are no state-mapped wetlands within the Project Site (see Figure 4). The closest NYS Freshwater Wetland is located approximately 2 miles north of the Project Site. NYSDEC stream classification maps indicates that there are no mapped streams within or near the Project Site.

3.4 MAPPED FLOODPLAINS

According to Federal Emergency Management Agency map services, the site is located within an AE zone. The AE zone identifies the area subject to inundation by the 1-percent-annual-chance flood (i.e., the 100-year floodplain) and provides the base flood elevations. The base flood elevation for the Project Site is 249 feet.

3.5 VEGETATION

Land cover and vegetation occurring within the Project Site were evaluated using current NLCD mapping (Yang et al., 2018) and further verified during the on-site field investigations. The Project Site encompasses

approximately 27 acres and primarily consists of woody wetlands, hay/pasture, and deciduous forest (see Table 2).

Table 2. Vegetation/Land Cover Within the Project Site

Land Cover Class	Acres	Percent Cover (%)
Woody Wetlands	13.1	52.7
Pasture/Hay	5.8	23.2
Deciduous Forest	2.9	11.6
Developed, Open Space	0.4	1.8
Shrub/Scrub	1.1	4.5
Open Water	1.1	4.5
Herbaceous	0.2	0.9
Evergreen Forest	0.2	0.9
Total	24.8	100

Source: NLCD 2016 (Yang et al., 2018).

4.0 ON-SITE WETLAND AND STREAM DELINEATION

EDR conducted field delineations of wetlands and streams within the Project Site on September 1, 2022, and November 4, 2022.

4.1 METHODOLOGY

The identification of wetland boundaries was based on the methodology described in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987). Determination of wetland boundaries was also guided by the methodologies presented in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (USACE, 2012) and the *New York State Freshwater Wetland Delineation Manual* (NYSDEC, 1995). Attention was given to the identification of potential hydrologic connections between wetlands and areas that could influence their jurisdictional status.

Wetland boundaries were defined in the field with sequentially numbered pink surveyor's flagging and mapped using a GPS unit with reported sub-meter accuracy. Data were collected from sample plots in representative wetland cover types and recorded on USACE Routine Wetland Determination forms (see Appendix B). The data collected at each delineated wetland included dominant vegetation, hydrology indicators, and soil characteristics. Wetland vegetation community types were identified according to the Cowardin et al. (1979) classification system.

The Regional Supplement lists the following primary indicators of wetland hydrology: (A1) surface water, (A2) high water table, (A3) saturation, (B1) water marks, (B2) sediment deposits, (B3) drift deposits, (B4) algal mat or crust, (B5) iron deposits, (B7) inundation visible on aerial imagery, (B8) sparsely vegetated concave surface, (B9) water-stained leaves, (B13) aquatic fauna, (B15) marl deposits, (C1) hydrogen sulfide odor, (C3) oxidized rhizospheres on living roots, (C4) presence of reduced iron, (C6) recent iron reduction in tilled soils, and (C7) thick muck surface. Per the Regional Supplement, the presence of any one of these "primary" indicators is sufficient evidence that wetland hydrology is present. In addition, the Regional Supplement identifies the following secondary indicators which were also used by EDR personnel to determine wetland hydrology: (B6) surface soil cracks, (B10) drainage patterns, (B16) moss trim lines, (C2) dry-season water table, (C8) crayfish burrows, (C9) saturation visible on aerial imagery, (D1) stunted or stressed plants, (D2) geomorphic position, (D3) shallow aquitard, (D4) microtopographic relief, and (D5) FAC-Neutral Test. In accordance with the Regional Supplement, in the absence of a primary indicator, the presence of any two of these "secondary" indicators is considered a suitable indication of wetland hydrology.

Assessment of vegetation focused on the identification of dominant plant species in four categories: trees (greater than 3 inches diameter at breast height), saplings/shrubs (less than 3.0 inches diameter at breast height and greater than 3.2 feet tall), herbs (all vegetation less than 3.2 feet tall), and woody vines. Dominance was determined by visually estimating those species having the greatest absolute percent cover within each stratum. Wetland indicator status for dominant plant species was determined by reference to the National Wetland Plant List (USACE, 2018; USDA NRCS, 2021). Wetlands are indicated by a dominance of hydrophytic plant species.

Hydric soils are those that are poorly drained and are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil layer. The presence of hydric soils is indicative of the presence of wetlands (Environmental Laboratory, 1987). Hydric soil conditions were determined in the field through observation of soils composition, color, and morphology. Soils data were collected by using a Dutch auger and tiling spade to examine the soil profile. Soil colors were determined using Munsell Soil Charts (Munsell Color, 2009). Information concerning soil series, color, texture, and matrix and concentration color was recorded for each delineated wetland and used to determine whether the soils displayed hydric characteristics.

Streams were identified according to the Cowardin Classification System (1979), and stream boundaries were determined based on the presence of ordinary high water line characteristics, including a "*clear, natural line impressed on the bank; shelving; changes in the character of soil; destruction of terrestrial vegetation; the presence of litter and debris*" (33 Code of Federal Regulations 329.11). Stream boundaries were defined and mapped in the field using the same method as described above for wetlands. Stream flow regime (i.e., perennial, intermittent, or ephemeral) was determined through evaluation of hydrologic, geomorphic, and biological characteristics (NC DWQ, 2010). Data regarding stream gradient (gentle, moderate, or steep), stream bank and channel width, water depth, stream bed substrate, in-stream cover, and biological indicators were collected and recorded on stream inventory forms (see Appendix B).

Photographs were taken of each wetland and stream delineated within the Project Site and presented in Appendix C.

4.2 RESULTS

EDR identified one wetland within the Project Site (see Figure 5). No streams were observed within the Project Site. The data collected for the delineated wetland is summarized in Table 3. In accordance with the Cowardin et al. (1979) classification system, the waters delineated within the Project Site consist of the following community types: palustrine emergent (PEM), palustrine scrub-shrub (PSS) and palustrine forested (PFO).

Table 3. Delineated Wetlands and Streams

Delineation ID ¹	Latitude of Centroid	Longitude of Centroid	Wetland Type ²	Wetland Acreage Within Project Site	Stream Type ³	Linear Feet of Stream Within Project Site	Federal Jurisdiction ⁴	State Jurisdiction ⁵
66-W001	43.942921	-76.142983	PEM	3.34	-	-	Yes	Yes
	43.943541	-76.14279	PSS	3.32	-	-	Yes	Yes
	43.944199	-76.141563	PFO	18.00	-	-	Yes	Yes

¹ Field ID assigned by EDR.

² Wetland community types are based upon the Cowardin et al. (1979) classification system: palustrine emergent wetland (PEM), palustrine scrub-shrub wetland (PSS), and palustrine forested wetland (PFO).

³ Stream type is based upon the Cowardin et al. (1979) classification system: N/A.

⁴ Based on visual observation of hydrologic connectivity in the field and review of available spatial data. Final jurisdictional determination to be made by the USACE.

⁵ Based on existing NYSDEC mapping of freshwater wetlands and streams. See Sections: 2.2, 3.3 and 4.2 for additional information.

Delineated wetland 66-W001 shown in Table 3 appears to have surface water connection to Lake Ontario, a WOTUS and is jurisdictional by the USACE under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act. As such, this wetland is presumed to be under USACE jurisdiction according to Section 404 of the Clean Water Act.

Delineated wetland 66-W001 is also presumed to be under New York State jurisdiction due to the wetland size being greater than 12.4 acres.

Descriptions of the delineated wetland community types within the Project Site are presented in Sections 4.2.1.

4.2.1 Wetlands

Wetland 66-W001 is an approximately 24.7-acre wetland with emergent, scrub-shrub, and forested vegetation community types. The emergent portion of this wetland is approximately 3.3 acres. It has a canopy with isolated green ash (*Fraxinus pennsylvanica*) and red maple (*Acer rubrum*) trees. Dominant understory plants included reed canarygrass (*Phalaris arundinacea*), Pointed Broom Sedge (*Carex scoparia*), common bog rush (*Juncus effusus*), silky dogwood (*Cornus amomum*), Pennsylvania smartweed (*Polygonum*

pensylvanicum), and northern bugleweed (*Lycopus uniflorus*). Indicators of wetland hydrology included oxidized rhizospheres on living roots (C3), geomorphic position (D2), microtopographic relief (D4), and FAC-Neutral Test (D5). Soils in Wetland 66-W001 were 98% dark gray (10YR 4/1) clay loam with 2% redox concentrations of brown (7.5YR 4/4) in the pore linings, and 90% dark grayish brown (10YR 4/2) silty clay loam with 10% redox concentrations of yellowish brown (10YR 5/8) in the pore linings and matrix. These soils satisfied the depleted matrix (F3) hydric soil indicator. Photos 1 and 2 in appendix C illustrate the emergent wetland community found on the island.

The scrub-shrub portion of Wetland 66-W001 is approximately 3.3 acres with a canopy of red maple and green ash. Dominant understory plants included red osier dogwood (*Cornus sericea*), Morrow's honeysuckle (*Lonicera morrowii*), reed canarygrass, and northern bugleweed. Indicators of wetland hydrology included oxidized rhizospheres on living roots (C3), geomorphic position (D2), microtopographic relief (D4), and FAC-Neutral Test (D5). Soils in Wetland 66W-001 were 80% dark gray (10YR 4/1) with 20% dark yellowish brown (10YR 3/4) redox concentrations in the pore linings and matrix. Soils below the top 12-inch layer were 70% light brownish gray (10YR 6/2) with 30% redox concentrations of strong brown (7.5YR 5/6) in the matrix. These soils satisfied the depleted matrix (F3) hydric soil indicator. Photos 5 and 6 in appendix C illustrate the forested wetland community found on the island.

The forested portion of Wetland 66-W001 is approximately 18 acres with a dominant canopy of green ash. Dominant understory plants included a sedge (*Carex sp.*), rough avens (*Geum laciniatum*), bristly dewberry (*Rubus hispidus*), white snakeroot (*Ageratina altissima*), wrinkle-leaf goldenrod (*Solidago rugosa*), and white avens (*Geum canadense*). Indicators of wetland hydrology included oxidized rhizospheres on living roots (C3), geomorphic position (D2), microtopographic relief (D4), and FAC-Neutral Test (D5). Soils in Wetland 66-W001 were 95% dark grayish brown (10YR 4/2) with 5% yellowish brown redox concentrations in the pore linings and matrix. At point 5W, the soils were similar in the top 7 inches, but below 7 inches were 95% light brownish gray (10YR 6/2) with 5% strong brown (7.5YR 5/6) redox concentrations in the matrix. These soils satisfied the depleted matrix (F3) hydric soil indicator. Photos 3 and 4 in appendix C illustrate the scrub shrub wetland community found on the island.

5.0 CONCLUSIONS

Within the Project Site, one wetland approximately 24.7 acres in size was delineated by EDR. No streams were observed or delineated.

All resources delineated within the Project Site are presumed to be jurisdictional under Section 404 of the Clean Water Act by the USACE due to their surface water connections to Lake Ontario, a jurisdictional WOTUS offsite. The delineated wetland lacks a connection to any mapped NYSDEC wetland or state-protected stream; however, it is presumed to be NYSDEC jurisdictional under Article 24 due being greater than 12.4 acres in size. However, final determination of jurisdictional status of all waters delineated within the Project Site must be made by the USACE and NYSDEC.

6.0 REFERENCES

Bryce, S.A., Griffith, G.E., Omernik, J.M., Edinger, G., Indrick, S., Vargas, O., and Carlson, D., 2010, Ecoregions of New York (color poster with map, descriptive text, summary tables, and photographs): Reston, Virginia, U.S. Geological Survey, map scale 1:1,250,000.

Cowardin, L.M., V. Carter, F.C. Goblet, and E.T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States*. FWS/OBS-79/31. U.S. Fish and Wildlife Service. Washington, D.C.

Environmental Laboratory. 1987. *Corps of Engineers Wetland Delineation Manual*. Technical Report Y-87-1. U.S. Army Corps of Engineers: Waterways Experiment Station. Vicksburg, MS.

Munsell Color. 2009. Munsell Soil Color Book. X-Rite, Incorporated. Grand Rapids, MI.

National Oceanic and Atmospheric Administration (NOAA). 2022. *Temperature and Precipitation Summary for WATERTOWN 7.0 N, NY US, 2002-2022*. NOAA Regional Climate Center. Available at: <http://agacis.rcc-acis.org/> (Accessed September 2022).

Natural Resources Conservation Service (NRCS). 2018. *New York Portion of the 2018 National Hydric Soil List*. Available at: https://efotg.sc.egov.usda.gov/references/Public/IL/State_List_NRCS_Hydric_Soils_Report_Dynamic_Data.html (Accessed September 2022).

New York State Department of Environmental Conservation (NYSDEC). 1995. *New York State Freshwater Wetland Delineation Manual*. July 1995.

North Carolina Division of Water Quality (NC DWQ). 2010. *Methodology for Identification of Intermittent and Perennial Streams and their Origins*. Version 4.11. Department of Environment and Natural Resources. Raleigh, NC.

Soil Survey Staff. 2020. *Web Soil Survey*. Natural Resources Conservation Service, United States Department of Agriculture Available at: <http://websoilsurvey.nrcs.usda.gov/> (Accessed September 2022).

United States Army Corps of Engineers (USACE). 2012. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*. Version 2.0. ERDC/EL TR-12-1. Vicksburg, MS.

USACE. 2018. *National Wetland Plant List*. Version 3.4. Available at: <http://wetland-plants.usace.army.mil> (Downloaded January 2021).

USACE and U.S. Environmental Protection Agency. 2020. *The Navigable Waters Protection Rule: Definition of "Waters of the United States"*. Pre-Publication Notice. Available at: <https://www.epa.gov/nwpr/final-rule-navigable-waters-protection-rule> (Accessed September 2022).

USDA NRCS. 2021. The PLANTS Database. Available at: <http://plants.usda.gov>. National Plant Data Team. Greensboro, North Carolina.

United States Environmental Protection Agency (USEPA). 2001. Interagency Memorandum from Gary S. Guzy (General Counsel for the U.S. Environmental Protection Agency) and Robert M. Anderson (Chief

Counsel for the U.S. Army Corps of Engineers). Re: *Supreme Court Ruling Concerning CWA Jurisdiction over Isolated Waters*.

United States Geological Survey (USGS). 2022. *StreamStats: Streamflow Statistics and Spatial Analysis Tools for Water-Resource Applications*. United States Department of the Interior. Washington, D.C. Available at: [https:// streamstats.usgs.gov/ss/](https://streamstats.usgs.gov/ss/) (Accessed September 2022).

Yang, L., S. Jin, P. Danielson, C.G. Homer, L. Gass, S.M. Bender, A. Case, C. Costello, J.A. Dewitz, J.A. Fry, M. Funk, B.J. Granneman, G.C. Liknes, M.B. Rigge, and G. Xian. 2018. *A New Generation of the United States National Land Cover Database—Requirements, Research Priorities, Design, and Implementation Strategies*. *Journal of Photogrammetry and Remote Sensing* 146: 108-123. Available at: <https://doi.org/10.1016/j.isprsjprs.2018.09.006> (Accessed December 2019).

APPENDIX A

Figures

Figure 1. Regional Project Location



Horse Island

Village of Sackets Harbor, Town of Hounsfield,
Jefferson County, New York

Wetland Delineation Report

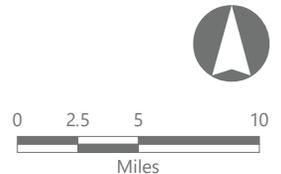


Figure 2. Topographic Mapping



Horse Island

Village of Sackets Harbor, Town of Hounsfield,
Jefferson County, New York

Wetland Delineation Report

 Study Area



Figure 3. Study Area Soils



Horse Island

Village of Sackets Harbor, Town of Hounsfield,
Jefferson County, New York

Wetland Delineation Report

Hydric Rating

66 to 99%

1 - 23%

Study Area

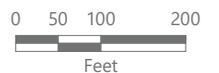


Figure 4. FEMA Flood Hazard



Horse Island

Village of Sackets Harbor, Town of Hounsfield,
Jefferson County, New York

Wetland Delineation Report

-  FEMA 100-Year Flood Zone
-  Study Area

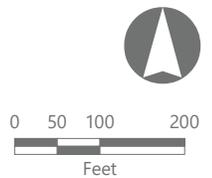


Figure 5. Mapped Wetlands and Streams



Horse Island

Village of Sackets Harbor, Town of Hounsfield,
Jefferson County, New York

Wetland Delineation Report

-  NWI Mapped Freshwater
-  Study Area

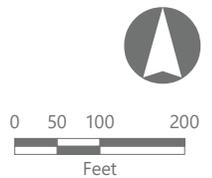
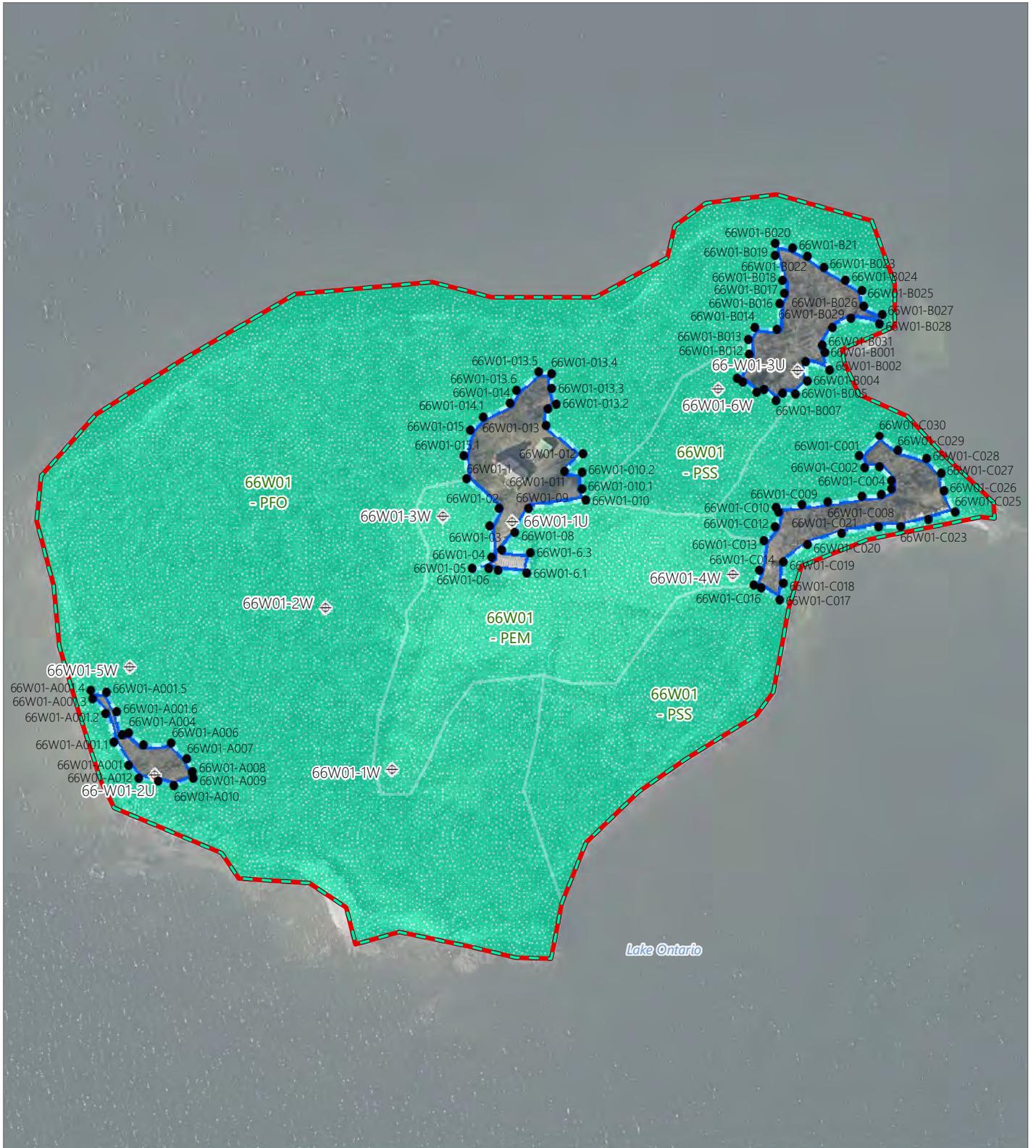


Figure 6. Delineated Wetlands and Streams

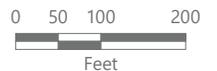


Horse Island

Village of Sackets Harbor, Town of Hounsfield, Jefferson County, New York

Wetland Delineation Report

- Wetland Flag
- ⊕ Datapoint Wetland
- Delineated Wetland
- Wetland Continues
- NYSDEC Regulated Adjacent Area
- Study Area



APPENDIX B

Routine Wetland Determination Data Sheets and Stream Inventory Forms

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 09/01/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-1U
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Mound Local relief (concave, convex, none): convex Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.942721 Long: -76.144479 Datum: WGS 1984
 Soil Map Unit Name: Rhinebeck silt loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes _____	No <input checked="" type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)
 Data taken adjacent to abandon residential structure. Upland island elevated 3-5 feet above surrounding wetland. Vegetation around structure is maintained.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Moss Trim Lines (B16)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input type="checkbox"/> Microtopographic Relief (D4)
	<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present?	Yes _____	No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe)	Yes _____	No <input checked="" type="checkbox"/>	Depth (inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-1U

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: 30)				
1. <i>Acer saccharinum</i> / Silver maple	15	Yes	FACW	
2. <i>Fraxinus pennsylvanica</i> / Green ash	5	Yes	FACW	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	20	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15)				
1. <i>Berberis thunbergii</i> / Japanese barberry	10	Yes	FACU	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	10	= Total Cover		
Herb Stratum (Plot size: 5)				
1. <i>Poa pratensis</i> / Kentucky blue grass	60	Yes	FACU	
2. <i>Anthoxanthum hirtum</i> / Northern sweet vernal grass	10	No	FACW	
3. <i>Symphotrichum lateriflorum</i> / Farewell-summer	5	No	FAC	
4. <i>Taraxacum officinale</i> / Red seeded dandelion, Common dan	5	No	FACU	
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	80	= Total Cover		
Woody Vine Stratum (Plot size:)				
1. _____				
2. _____				
3. _____				
4. _____				
	0	= Total Cover		

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
Total Number of Dominant Species Across All Strata:	4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0 (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 30	x 2 = 60
FAC species 5	x 3 = 15
FACU species 75	x 4 = 300
UPL species 0	x 5 = 0
Column Totals: 110 (A)	375 (B)
Prevalence Index = B/A = 3.41	
Hydrophytic Vegetation Indicators:	
___ 1 - Rapid Test for Hydrophytic Vegetation	
___ 2 - Dominance Test is >50%	
___ 3 - Prevalence Index ≤3.0 ¹	
___ 4 - Morphological Adaptations ¹ (Provide supporting Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata	
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines - All woody vines greater than 3.28 ft in height.	
Hydrophytic Vegetation Present? Yes ___ No <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 09/01/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-1W
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Island Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.941629 Long: -76.14528 Datum: WGS 1984
 Soil Map Unit Name: Rhinebeck silt loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
---	---

Remarks: (Explain alternative procedures here or in a separate report.)
 PEM data point for 66-W01. Wetland Occurs on an island on the south east side of Lake Ontario.

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input checked="" type="checkbox"/> Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-1W

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: <u>30</u>)			
1. <i>Fraxinus pennsylvanica</i> / Green ash	70	Yes	FACW
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
	<u>70</u>	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Sapling/Shrub Stratum (Plot size: <u>15</u>)			
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
	<u>0</u>	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Herb Stratum (Plot size: <u>5</u>)			
1. <i>Phalaris arundinacea</i> / Reed canarygrass, Reed canary gras	90	Yes	FACW
2. <i>Juncus effusus</i> / Common bog rush, Soft or lamp rush	10	No	OBL
3. <i>Rosa multiflora</i> / Multiflora rose, Multiflora rosa	7	No	FACU
4. <i>Polygonum pensylvanicum</i> / Pennsylvania smartweed	5	No	NI
5. <i>Lycopus uniflorus</i> / Northern bugleweed	5	No	OBL
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
	<u>117</u>	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Woody Vine Stratum (Plot size: <u>30</u>)			
1. _____			
2. _____			
3. _____			
4. _____			
	<u>0</u>	= Total Cover	

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>15</u>	x 1 = <u>15</u>
FACW species <u>160</u>	x 2 = <u>320</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>7</u>	x 4 = <u>28</u>
UPL species <u>5</u>	x 5 = <u>25</u>
Column Totals: <u>187</u>	(A) <u>388</u> (B)

Prevalence Index = B/A = 2.07

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 10/25/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-2U
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Mound Local relief (concave, convex, none): convex Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.941621 Long: -76.146755 Datum: WGS 1984
 Soil Map Unit Name: Collamer silt loam, 3 to 8 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Small upland island adjacent to Lake Ontario.	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-2U

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30</u>)				
1. <u>Quercus rubra / Northern red oak</u>	40	Yes	FACU	
2. <u>Fraxinus pennsylvanica / Green ash</u>	20	Yes	FACW	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>Lonicera morrowii / Morrow's honeysuckle</u>	30	Yes	FACU	
2. <u>Rubus allegheniensis / Allegheny blackberry</u>	20	Yes	FACU	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	50	= Total Cover		
Herb Stratum (Plot size: _____)				
1. <u>Carex / Sedge</u>	30	Yes	FAC	
2. <u>Ageratina altissima / White snakeroot</u>	30	Yes	FACU	
3. <u>Geum laciniatum / Rough avens</u>	20	Yes	FACW	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	80	= Total Cover		
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
	0	= Total Cover		

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

 Total Number of Dominant Species Across All Strata: 7 (B)

 Percent of Dominant Species That Are OBL, FACW, or FAC: 42.9 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>40</u>	x 2 = <u>80</u>
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>120</u>	x 4 = <u>480</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>190</u>	(A) <u>650</u> (B)

Prevalence Index = B/A = 3.42

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 09/01/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-2W
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): _____ Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.942355 Long: -76.145671 Datum: WGS 1984
 Soil Map Unit Name: Madalin silt loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Moss Trim Lines (B16)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input checked="" type="checkbox"/> Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-2W

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: <u>30</u>)			
1. <i>Fraxinus pennsylvanica</i> / Green ash	70	Yes	FACW
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

	70	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15</u>)			
1. <i>Fraxinus pennsylvanica</i> / Green ash	10	Yes	FACW
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

	10	= Total Cover	
Herb Stratum (Plot size: <u>5</u>)			
1. <i>Ageratina altissima</i> / White snakeroot	10	Yes	FACU
2. <i>Solidago rugosa</i> / Wrinkle-leaf goldenrod	10	Yes	FAC
3. <i>Geum canadense</i> / White avens	5	Yes	FAC
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

	25	= Total Cover	
Woody Vine Stratum (Plot size: <u>30</u>)			
1. _____			
2. _____			
3. _____			
4. _____			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>15</u>	x 3 = <u>45</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>105</u> (A)	<u>245</u> (B)

Prevalence Index = B/A = 2.33

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes No

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 10/25/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-3U
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Mound Local relief (concave, convex, none): convex Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.943404 Long: -76.142769 Datum: WGS 1984
 Soil Map Unit Name: Madalin silt loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Small upland island adjacent to Lake Ontario	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-3U

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: <u>30</u>)			
1. <i>Fraxinus pennsylvanica</i> / Green ash	30	Yes	FACW
2. <i>Acer negundo</i> / Boxelder, Box elder	20	Yes	FAC
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
	<u>50</u>	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Sapling/Shrub Stratum (Plot size: <u>15</u>)			
1. <i>Lonicera morrowii</i> / Morrow's honeysuckle	60	Yes	FACU
2. <i>Rubus allegheniensis</i> / Allegheny blackberry	20	Yes	FACU
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
	<u>80</u>	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Herb Stratum (Plot size: <u>5</u>)			
1. <i>Ageratina altissima</i> / White snakeroot	30	Yes	FACU
2. <i>Solidago lepida</i> / Western canada goldenrod	20	Yes	FACU
3. <i>Geum laciniatum</i> / Rough avens	10	No	FACW
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
	<u>60</u>	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Woody Vine Stratum (Plot size: <u>30</u>)			
1. _____			
2. _____			
3. _____			
4. _____			
	<u>0</u>	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>40</u>	x 2 = <u>80</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>130</u>	x 4 = <u>520</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>190</u> (A)	<u>660</u> (B)

Prevalence Index = B/A = 3.47

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes No X

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 09/01/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-3W
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Flat Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.9426844 Long: -76.14492797 Datum: WGS 1984
 Soil Map Unit Name: Rhinebeck silt loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Moss Trim Lines (B16)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input checked="" type="checkbox"/> Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-3W

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>30</u>)				
1. <u>Acer rubrum / Red maple</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>5</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5</u>)				
1. <u>Phalaris arundinacea / Reed canarygrass, Reed canary gras</u>	<u>85</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Polygonum hydropiperoides / Mild water pepper</u>	<u>5</u>	<u>No</u>	<u>NI</u>	
3. <u>Parthenocissus vitacea / Virginia creeper</u>	<u>2</u>	<u>No</u>	<u>NI</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	<u>92</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
	<u>0</u>	= Total Cover		

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100.0</u> (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>85</u>	x 2 = <u>170</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>7</u>	x 5 = <u>35</u>
Column Totals: <u>97</u>	(A) <u>220</u> (B)
Prevalence Index = B/A = <u>2.27</u>	
Hydrophytic Vegetation Indicators:	
<u> </u> 1 - Rapid Test for Hydrophytic Vegetation	
<u>X</u> 2 - Dominance Test is >50%	
<u>X</u> 3 - Prevalence Index ≤3.0 ¹	
<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata	
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines - All woody vines greater than 3.28 ft in height.	
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 09/01/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-4W
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Flat Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.942436 Long: -76.143142 Datum: WGS 1984
 Soil Map Unit Name: Beaches NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Moss Trim Lines (B16)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input checked="" type="checkbox"/> Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-4W

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: 30)				
1. <i>Fraxinus pennsylvanica</i> / Green ash	10	Yes	FACW	
2.				
3.				
4.				
5.				
6.				
7.				
	10	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15)				
1. <i>Cornus amomum</i> / Silky dogwood	40	Yes	FACW	
2.				
3.				
4.				
5.				
6.				
7.				
	40	= Total Cover		
Herb Stratum (Plot size: 5)				
1. <i>Carex scoparia</i> / Pointed broom sedge	60	Yes	FACW	
2. <i>Phalaris arundinacea</i> / Reed canarygrass, Reed canary gras	30	Yes	FACW	
3. <i>Solidago gigantea</i> / Smooth goldenrod	20	No	FACW	
4. <i>Scirpus cyperinus</i> / Woolgrass	10	No	OBL	
5. <i>Fraxinus pennsylvanica</i> / Green ash	5	No	FACW	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	125	= Total Cover		
Woody Vine Stratum (Plot size: 30)				
1.				
2.				
3.				
4.				
	0	= Total Cover		

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
Total Number of Dominant Species Across All Strata:	4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0 (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species 10	x 1 = 10
FACW species 165	x 2 = 330
FAC species 0	x 3 = 0
FACU species 0	x 4 = 0
UPL species 0	x 5 = 0
Column Totals: 175 (A)	340 (B)
Prevalence Index = B/A = 1.94	
Hydrophytic Vegetation Indicators:	
<input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
<input checked="" type="checkbox"/> 3 - Prevalence Index ≤3.0 ¹	
<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata	
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines - All woody vines greater than 3.28 ft in height.	
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 10/25/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-5W
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): Flat Local relief (concave, convex, none): concave Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.942092 Long: -76.146889 Datum: WGS 1984
 Soil Map Unit Name: Collamer silt loam, 3 to 8 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Green ash forest on island.	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-5W

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30)			
1. <i>Fraxinus pennsylvanica</i> / Green ash	50	Yes	FACW
2. <i>Acer negundo</i> / Boxelder, Box elder	10	No	FAC
3.			
4.			
5.			
6.			
7.			
	60	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Sapling/Shrub Stratum (Plot size: 15)			
1. <i>Lonicera morrowii</i> / Morrow's honeysuckle	70	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	70	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Herb Stratum (Plot size: 5)			
1. <i>Carex</i> / Sedge	10	Yes	FACW
2. <i>Geum laciniatum</i> / Rough avens	10	Yes	FACW
3. <i>Symphotrichum lateriflorum</i> / Farewell-summer	10	Yes	FAC
4. <i>Rosa multiflora</i> / Multiflora rose, Multiflora rosa	10	Yes	FACU
5. <i>Rubus hispidus</i> / Bristly dewberry	10	Yes	FACW
6. <i>Galium aparine</i> / Cleavers, Goose grass	5	No	FACU
7.			
8.			
9.			
10.			
11.			
12.			
	55	= Total Cover	

	Absolute % Cover	Dominant Species?	Indicator Status
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>80</u>	x 2 = <u>160</u>
FAC species <u>20</u>	x 3 = <u>60</u>
FACU species <u>85</u>	x 4 = <u>340</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>185</u> (A)	<u>560</u> (B)

Prevalence Index = B/A = 3.03

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index ≤3.0¹
- 4 - Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes No

Remarks: (Explain alternative procedures here or in a separate report.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Horse Island City/County: Horse Island, Jefferson County Sampling Date: 10/25/2022
 Applicant/Owner: Beardsley Architects + Engineers State: New York Sampling Point: 66-W01-6W
 Investigator(s): JK, JB, RS Section, Township, Range: Horse Island, Jefferson County, New York
 Landform (hillslope, terrace, etc): flat Local relief (concave, convex, none): convex Slope (%): 0-5
 Subregion (LRR or MLRA): LRR L Lat: 43.94333 Long: -76.14326 Datum: WGS 1984
 Soil Map Unit Name: Madalin silt loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6)
	<input type="checkbox"/> Drainage Patterns (B10)
	<input type="checkbox"/> Moss Trim Lines (B16)
	<input type="checkbox"/> Dry-Season Water Table (C2)
	<input type="checkbox"/> Crayfish Burrows (C8)
	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
	<input type="checkbox"/> Stunted or Stressed Plants (D1)
	<input checked="" type="checkbox"/> Geomorphic Position (D2)
	<input type="checkbox"/> Shallow Aquitard (D3)
	<input checked="" type="checkbox"/> Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 66-W01-6W

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: 30)				
1. <i>Acer rubrum</i> / Red maple	40	Yes	FAC	
2. <i>Fraxinus pennsylvanica</i> / Green ash	15	Yes	FACW	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	55	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15)				
1. <i>Cornus sericea</i> / American dogwood	75	Yes	NI	
2. <i>Lonicera morrowii</i> / Morrow's honeysuckle	25	Yes	FACU	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	100	= Total Cover		
Herb Stratum (Plot size: 5)				
1. <i>Phalaris arundinacea</i> / Reed canarygrass, Reed canary gras	30	Yes	FACW	
2. <i>Lycopus uniflorus</i> / Northern bugleweed	20	Yes	OBL	
3. <i>Polygonum hydropiperoides</i> / Mild water pepper	10	No	NI	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	60	= Total Cover		
Woody Vine Stratum (Plot size: 30)				
1. _____				
2. _____				
3. _____				
4. _____				
	0	= Total Cover		

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
Total Number of Dominant Species Across All Strata:	6 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7 (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species 20	x 1 = 20
FACW species 45	x 2 = 90
FAC species 40	x 3 = 120
FACU species 25	x 4 = 100
UPL species 85	x 5 = 425
Column Totals: 215 (A)	755 (B)
Prevalence Index = B/A = 3.51	
Hydrophytic Vegetation Indicators:	
<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
<input type="checkbox"/> 3 - Prevalence Index ≤3.0 ¹	
<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata	
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
Woody vines - All woody vines greater than 3.28 ft in height.	
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)

APPENDIX C

Photo Documentation



Photo 1

Representative photo of emergent wetland cover type.

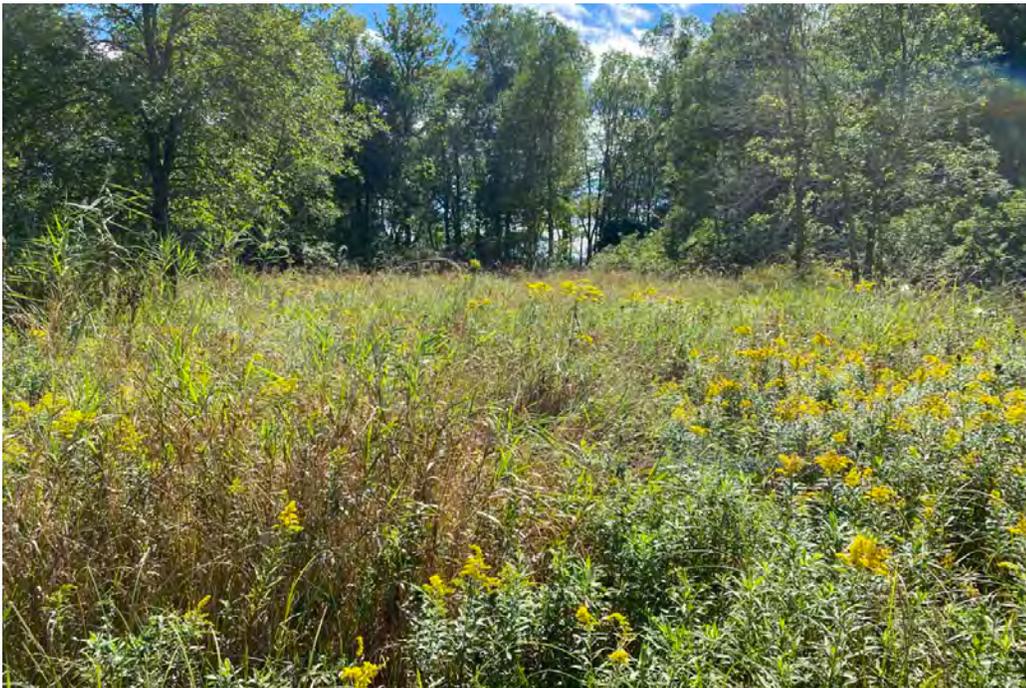


Photo 2

Representative photo of emergent wetland cover type.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report



Photo 3

Representative photo of forested wetland cover type.



Photo 4

Representative photo of forested wetland cover type.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report



Photo 5

Representative photo of scrub-shrub wetland cover type.



Photo 6

Representative photo of scrub-shrub wetland cover type.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report



Photo 7

Representative photo of upland community.



Photo 8

Representative photo of upland community.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report



Photo 9

Representative photo of upland community.



Photo 10

Photo of beacon used for navigation located on the north side of the island.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report



Photo 11

Representative photo of Horse Island shoreline.



Photo 12

Photo of non-residential structure located north of the lighthouse.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report



Photo 13

Photo of the historic lighthouse located in the center of the island.



Photo 14

Photo of non-residential structure located south of historic lighthouse.

Horse Island Reconstruction

Village of Sackets Harbor, Jefferson County, New York

Wetland and Stream Delineation Report

USFWS IPaC REPORT



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
Email Address: fw5es_nyfo@fws.gov

In Reply Refer To:

October 13, 2023

Project Code: 2023-0099315

Project Name: Horse Island Improvements - Island and Mainland Improvements

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office

3817 Luker Road

Cortland, NY 13045-9385

(607) 753-9334

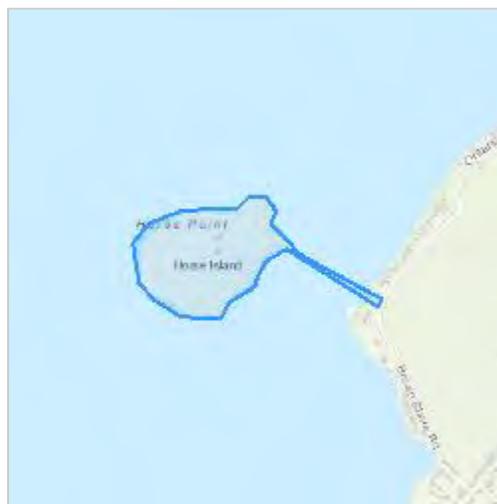
PROJECT SUMMARY

Project Code: 2023-0099315
Project Name: Horse Island Improvements - Island and Mainland Improvements
Project Type: Recreation - New Construction
Project Description: ISLAND WORK: House/Lighthouse structure: re-point exterior bricks and chimney, provide foundation perimeter drainage stone, replace pressure treated wood deck with ADA ramp, remove vinyl siding to reveal wood siding, replace windows, remodel/update interior, provide bilco door for basement access. Studio structure: convert to a bunkhouse sleeping area with updated inside finishes. Barn structure: stabilize the pole structure where settling has occurred, incorporate employee bathroom. Trails will be improved: ADA portions of the trails will be five foot wide, all other trails will be four feet wide. Grading will be done to take out slight highs and lows in the trails. A 4-inch stone sub-base will be topped with 2 inches of stone-dust. The Coast Guard property will add a new trail. Add single toilet restroom building with water and electric. Replace Gazebo in-kind in same location. Extend municipal sewer line, water line, and new primary electric conductors beneath the Lake to a pit on the island via directional drilling.

MAINLAND WORK: Demolish Cottage and replace with Caretaker's House in same spot. Run water, sewer, electric together in common trench across property. Install floating dock and boat lift system at shoreline for launching/removing boats similar to others in area.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.9423841,-76.14513290926075,14z>



Counties: Jefferson County, New York

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: New York State Office of Parks, Recreation and Historic Preservation

Name: Nancy Stoner

Address: 625 Broadway, 2nd Floor

City: Albany

State: NY

Zip: 12238

Email: nancy.stoner@parks.ny.gov

Phone: 5183390204

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
Email Address: fw5es_nyfo@fws.gov
<https://www.fws.gov/northeast/NYFO/>

In Reply Refer To:

November 21, 2023

Project code: 2023-0099315

Project Name: Horse Island Improvements - Island and Mainland Improvements

Federal Nexus: yes

Federal Action Agency (if applicable): Army Corps of Engineers

Subject: Technical assistance for 'Horse Island Improvements - Island and Mainland Improvements'

Dear Nancy Stoner:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on November 21, 2023, for “Horse Island Improvements - Island and Mainland Improvements” (here forward, Project). This project has been assigned Project Code 2023-0099315 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species’ determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (Dkey), invalidates this letter. **Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area

involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect (NLAA)" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Indiana Bat (<i>Myotis sodalis</i>)	Endangered	May affect

Consultation with the Service is not complete. Further consultation or coordination with the Service is necessary for those species or designated critical habitats with a determination of "May Affect". Please contact our New York Ecological Services Field Office to discuss methods to avoid or minimize potential adverse effects to those species or designated critical habitats.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Endangered

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the New York Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Horse Island Improvements - Island and Mainland Improvements

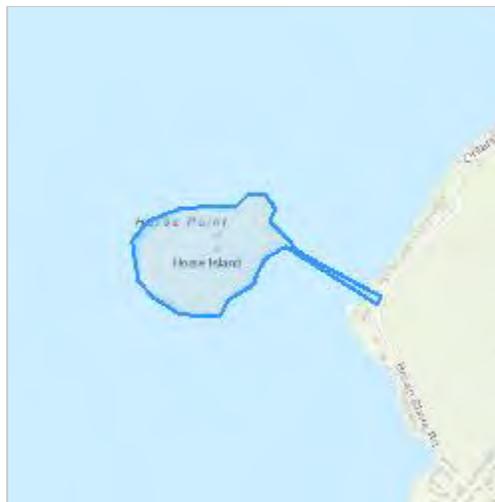
2. Description

The following description was provided for the project 'Horse Island Improvements - Island and Mainland Improvements':

ISLAND WORK: House/Lighthouse structure: re-point exterior bricks and chimney, provide foundation perimeter drainage stone, replace pressure treated wood deck with ADA ramp, remove vinyl siding to reveal wood siding, replace windows, remodel/update interior, provide bilco door for basement access. Studio structure: convert to a bunkhouse sleeping area with updated inside finishes. Barn structure: stabilize the pole structure where settling has occurred, incorporate employee bathroom. Trails will be improved: ADA portions of the trails will be five foot wide, all other trails will be four feet wide. Grading will be done to take out slight highs and lows in the trails. A 4-inch stone sub-base will be topped with 2 inches of stone-dust. The Coast Guard property will add a new trail. Add single toilet restroom building with water and electric. Replace Gazebo in-kind in same location. Extend municipal sewer line, water line, and new primary electric conductors beneath the Lake to a pit on the island via directional drilling.

MAINLAND WORK: Demolish Cottage and replace with Caretaker's House in same spot. Run water, sewer, electric together in common trench across property. Install floating dock and boat lift system at shoreline for launching/removing boats similar to others in area.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.94237765,-76.14514086772914,14z>



QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

No

5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

No

8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

9. Will the proposed project involve the use of herbicide where listed species are present?

No

10. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

11. Does any component of the project associated with this action include structures that may pose a collision risk to **birds** (e.g., land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

12. Does any component of the project associated with this action include structures that may pose a collision risk to **bats** (e.g., land-based wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

13. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

14. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

Yes

15. Will the proposed project activities (including upland project activities) occur within 0.125 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

No

16. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present?

No

17. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

No

18. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

19. Will the proposed project involve the removal of excess sediment or debris, dredging or in-stream gravel mining where listed species may be present?

No

20. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

21. Will the proposed project involve perennial stream loss, in a stream or tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

22. Will the proposed project involve blasting where listed species may be present?

No

23. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

No

24. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream.

No

25. Will earth moving activities result in sediment being introduced to streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

No

26. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

No

27. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

28. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

29. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

30. [Semantic] Does the project intersect the Indiana bat AOI?

Automatically answered

Yes

31. Is the action area within 0.5 mile radius of any known hibernacula (caves or mines) openings or underground features?

Note: If you are unsure, contact the appropriate Ecological Services Field Office before continuing through the key.

No

32. Are trees present within the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥ 5 inches dbh (12.7 centimeter), answer "Yes". If you are unsure, answer "Yes." Or refer to Appendix A of the Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines for definitions and an assessment form that will assist you in determining if suitable habitat is present within your project's action area. Suitable summer habitat for Indiana bat consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥ 5 inches dbh (12.7 centimeter) that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat

Yes

33. Is the action area within known occupied Indiana bat habitat? Known occupied Indiana bat habitat includes established conservation buffers (10-mile buffer around Phase 1 or Phase 2 hibernacula, 5-mile buffer around Phase 3 or Phase 4 hibernacula; 5-mile buffer around Indiana bat captures or detections; 2.5-mile buffer around known roosts).

Yes

34. [Semantic] Does the project intersect the Indiana bat critical habitat?
Automatically answered
No
35. [Semantic] Does the project intersect the candy darter critical habitat?
Automatically answered
No
36. [Semantic] Does the project intersect the diamond darter critical habitat?
Automatically answered
No
37. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?
Automatically answered
No
38. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?
Automatically answered
No
39. Do you have any other documents that you want to include with this submission?
No
-

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove?

0.1

2. Approximately how many total acres of disturbance are within the disturbance/ construction limits of the proposed project?

2.25

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

Horse Island consists of mostly one large wetland complex. No streams were observed within the Project Site. The wetlands delineated within the Project Site consist of the following community types: palustrine emergent (PEM) at 3.34 acres, palustrine scrub-shrub (PSS) at 3.32 acres and palustrine forested (PFO) at 18 acres.

The mainland property, where two trees will be removed, is fully developed with a house and small lawn area.

IPAC USER CONTACT INFORMATION

Agency: New York State Office of Parks, Recreation and Historic Preservation

Name: Nancy Stoner

Address: 625 Broadway, 2nd Floor

City: Albany

State: NY

Zip: 12238

Email: nancy.stoner@parks.ny.gov

Phone: 5183390204

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
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Phone: (607) 753-9334 Fax: (607) 753-9699
Email Address: fw5es_nyfo@fws.gov
<https://www.fws.gov/northeast/NYFO/>

In Reply Refer To:

November 21, 2023

Project code: 2023-0099315

Project Name: Horse Island Improvements - Island and Mainland Improvements

Federal Nexus: yes

Federal Action Agency (if applicable): Army Corps of Engineers

Subject: Technical assistance for 'Horse Island Improvements - Island and Mainland Improvements'

Dear Nancy Stoner:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on November 21, 2023, for 'Horse Island Improvements - Island and Mainland Improvements' (here forward, Project). This project has been assigned Project Code 2023-0099315 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project. **Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter.**

Determination for the Northern Long-Eared Bat

Based on your IPaC submission and the standing analysis for the Dkey, your project has reached the determination of "May Affect" the northern long-eared bat.

Next Steps

Your action may qualify for the Interim Consultation Framework for the northern long-eared bat. To determine if it qualifies, review the Interim Consultation Framework posted here <https://www.fws.gov/library/collections/interim-consultation-framework-northern-long-eared-bat>. If you determine it meets the requirements of the Interim Consultation Framework, follow the procedures outlined there to complete section 7 consultation.

If your project does **not** meet the requirements of the Interim Consultation Framework, please contact the New York Ecological Services Field Office for further coordination on this project. Further consultation or coordination with the Service is necessary for those species or designated critical habitats with a determination of “May Affect”.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Indiana Bat *Myotis sodalis* Endangered
- Monarch Butterfly *Danaus plexippus* Candidate

You may coordinate with our Office to determine whether the Action may cause prohibited take of the species listed above.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Horse Island Improvements - Island and Mainland Improvements

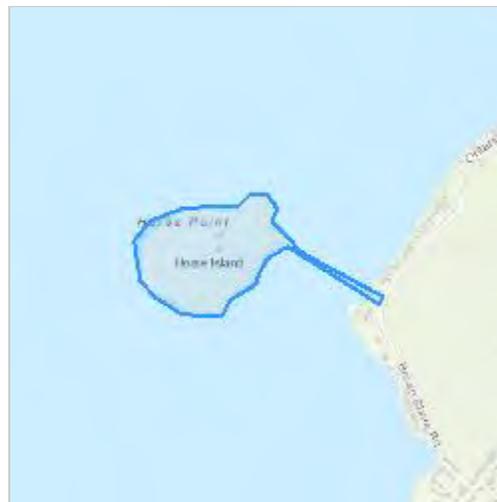
2. Description

The following description was provided for the project 'Horse Island Improvements - Island and Mainland Improvements':

ISLAND WORK: House/Lighthouse structure: re-point exterior bricks and chimney, provide foundation perimeter drainage stone, replace pressure treated wood deck with ADA ramp, remove vinyl siding to reveal wood siding, replace windows, remodel/update interior, provide bilco door for basement access. Studio structure: convert to a bunkhouse sleeping area with updated inside finishes. Barn structure: stabilize the pole structure where settling has occurred, incorporate employee bathroom. Trails will be improved: ADA portions of the trails will be five foot wide, all other trails will be four feet wide. Grading will be done to take out slight highs and lows in the trails. A 4-inch stone sub-base will be topped with 2 inches of stone-dust. The Coast Guard property will add a new trail. Add single toilet restroom building with water and electric. Replace Gazebo in-kind in same location. Extend municipal sewer line, water line, and new primary electric conductors beneath the Lake to a pit on the island via directional drilling.

MAINLAND WORK: Demolish Cottage and replace with Caretaker's House in same spot. Run water, sewer, electric together in common trench across property. Install floating dock and boat lift system at shoreline for launching/removing boats similar to others in area.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.94237765,-76.14514086772914,14z>



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect” for the Endangered northern long-eared bat (*Myotis septentrionalis*).

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Do you have post-white nose syndrome occurrence data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed acoustic detections. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

No

3. Does any component of the action involve construction or operation of wind turbines?

Note: For federal actions, answer ‘yes’ if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

4. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

5. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

6. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

9. Have you determined that your proposed action will have no effect on the northern long-eared bat? Remember to consider the [effects of any activities](#) that would not occur but for the proposed action.

If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer “No” below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project’s action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a “no effect” determination for the northern long-eared bat.

Note: Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer “No” and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of [Effects of the Action](#) can be found here: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

No

10. Have you contacted the appropriate agency to determine if your action is near any known northern long-eared bat hibernacula?

Note: A document with links to Natural Heritage Inventory databases and other state-specific sources of information on the locations of northern long-eared bat hibernacula is available [here](#). Location information for northern long-eared bat hibernacula is generally kept in state natural heritage inventory databases – the availability of this data varies by state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited.

Yes

11. Is any portion of the action area within 0.5-mile radius of any known northern long-eared bat hibernacula? If unsure, contact your local Ecological Services Field Office.

No

12. Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating northern long-eared bats?

No

13. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?
(If unsure, answer "Yes.")

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥ 3 inches (12.7 centimeter) dbh), answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

Yes

14. Will the action cause effects to a bridge?

No

15. Will the action result in effects to a culvert or tunnel?

No

16. Does the action include the intentional exclusion of northern long-eared bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local U.S. Fish and Wildlife Services Ecological Services Field Office to help assess whether northern long-eared bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures

No

17. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats**?

No

18. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic on one or more existing roads?

Note: For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

20. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

21. Will the proposed action involve the creation of a new water-borne contaminant source (e.g., leachate pond pits containing chemicals that are not NSF/ANSI 60 compliant)?

No

22. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

23. Will the proposed action involve blasting?

No

24. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

No

25. Will the proposed action involve the use of herbicides or pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

No

26. Will the action include or cause activities that are reasonably certain to cause chronic nighttime noise in suitable summer habitat for the northern long-eared bat? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time.

Note: Additional information defining suitable summer habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

No

27. Does the action include, or is it reasonably certain to cause, the use of artificial lighting within 1000 feet of suitable northern long-eared bat roosting habitat?

Note: Additional information defining suitable roosting habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

Yes

28. Will the action use only downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting) when installing new or replacing existing permanent lights? Or for those transportation agencies using the Backlight, Uplight, Glare (BUG) system developed by the Illuminating Engineering Society, will all three ratings (backlight, uplight, and glare) be as close to zero as is possible, with a priority of "uplight" of 0?

Yes

29. Will the action direct any temporary lighting away from suitable northern long-eared bat roosting habitat during the active season?

Note: Active season dates for northern long-eared bat can be found here: <https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas>.

Yes

30. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

31. Have you contacted the appropriate agency to determine if the action area overlaps with a known northern long-eared bat conservation buffer / known summer habitat (3-mile buffers around northern long-eared bat captures or detections; 1.5 mile buffer around known roosts)) or spring staging/fall swarming buffer (within 5 miles of known hibernacula)?

Note: A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees can be found [here](#). Location information for northern long-eared bat maternity roost trees and swarming areas is generally kept in state natural heritage inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. If you'd like to assume presence of northern long-eared bats, answer "No".

Yes

32. Does the action area overlap with a known spring staging/fall swarming buffer (within 5 miles of known hibernacula)?

No

33. Does the action area overlap with a known northern long-eared bat conservation buffer (3-mile buffer around northern long-eared bat captures or detections; 1.5-mile buffer around known roost trees)?

No

34. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's [Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines](#) been conducted within the project area? If unsure, answer "No."

No

35. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property and has a diameter breast height of six inches or greater.

No

36. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥ 3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

Yes

37. [Semantic] Does your project intersect a known sensitive area for the northern long-eared bat?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your [state agency or USFWS field office](#)

Automatically answered

No

38. Will all tree cutting/trimming or other knocking or bringing down of trees be restricted to the inactive season for the northern long-eared bat?

Note: Inactive Season dates for summer habitat outside of staging and swarming areas can be found here: <https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas>.

Yes

39. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 10 acres?

No

40. Will the action cause trees to be cut, knocked down, or otherwise brought down in a way that would fragment a forested connection (e.g., tree line) between two or more forest patches of at least 5 acres?

The forest patches may consist of entirely contiguous forest or multiple forested areas that are separated by less than 1000' of non-forested area. A project will fragment a forested connection if it creates an unforested gap of greater than 1000'.

No

41. Will the action result in the use of prescribed fire?

No

42. Will the action cause noises that are louder than ambient baseline noises within the action area?

Yes

43. Will the action cause noises during the active season in suitable summer habitat that are louder than anthropogenic noises to which the affected habitat is currently exposed? Answer 'no' if the noises will occur only during the inactive period.

Note: Inactive Season dates for areas within a spring staging/fall swarming area can be found here: <https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas>.

Note: Additional information defining suitable summer habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

Yes

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

2.25

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the inactive (hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: <https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas>

0.1

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the active (non-hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: <https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas>

0

Will all potential northern long-eared bat (NLEB) roost trees (trees ≥ 3 inches diameter at breast height, dbh) be cut, knocked, or brought down from any portion of the action area greater than or equal to 0.1 acre? If all NLEB roost trees will be removed from multiple areas, select 'Yes' if the cumulative extent of those areas meets or exceeds 0.1 acre.

Yes

Enter the extent of the action area (in acres) from which all potential NLEB roost trees will be removed. If all NLEB roost trees will be removed from multiple areas, entire the total extent of those areas. Round up to the nearest tenth of an acre.

0.1

For the area from which all potential northern long-eared bat (NLEB) roost trees will be removed, on how many acres (round to the nearest tenth of an acre) will trees be allowed to regrow? Enter '0' if the entire area from which all potential NLEB roost trees are removed will be developed or otherwise converted to non-forest for the foreseeable future.

0

Will any snags (standing dead trees) ≥ 3 inches dbh be left standing in the area(s) in which all northern long-eared bat roost trees will be cut, knocked down, or otherwise brought down?

Yes

Will all project activities be completed by April 1, 2024?

No

IPAC USER CONTACT INFORMATION

Agency: New York State Office of Parks, Recreation and Historic Preservation

Name: Nancy Stoner

Address: 625 Broadway, 2nd Floor

City: Albany

State: NY

Zip: 12238

Email: nancy.stoner@parks.ny.gov

Phone: 5183390204

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers

SHPO RESOURCE EVALUATION AND LETTER



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

October 28, 2022

Matt Williams
Assistant Engineer
New York State Office of Parks, Recreation, and Historic Preservation
Keewaydin State Park
45165 NYS Route 12
Alexandria Bay, NY 13607

Re: OPRHP/SEQRA
Horse Island and Associated Mainland Property Development
19PR08677

Dear Matt Williams:

Thank you for continuing to consult with the comments of the Division for Historic Preservation (DHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 NYSPRHPL) and OPRHP Agency Protocol HP-PCD-001. These comments are those of the DHP and relate only to Historic/ Cultural resources.

We have reviewed the provided schematic plans for the lighthouse dated 10/29/2021. The plans appear as expected and we have no substantive comments at this stage. Please provide more detailed design drawings as they become available. We'd be particularly interested in the window details, exterior finish (siding) and second story dormer details at a minimum.

Thank you for taking our site visit comments into consideration and for resulting adjustment in the plans. As currently illustrated the project is likely not adverse. Additional details will be needed before a formal finding can be made.

If you have any questions, you can call or e-mail me at the contact information below.

Sincerely,

Beth A. Cumming
Senior Historic Site Restoration Coordinator
e-mail: beth.cumming@parks.ny.gov

via e-mail only



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

May 2, 2023

Matt Williams
Assistant Engineer
New York State Office of Parks, Recreation, and Historic Preservation
Keewaydin State Park
45165 NYS Route 12
Alexandria Bay, NY 13607

Re: OPRHP/SEQRA
Horse Island and Associated Mainland Property Development
19PR08677

Dear Matt Williams:

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We have reviewed the 65% design development drawings. The plans appear as expected. Our one concern is with regards to the proposed ceiling insulation on the second floor. Our office has been debating the pros and cons of spray foam insulation. Spray foam is generally not preferred for historic resources as it is not a reversible insulation due to its adherence to the historic fabric it encounters when installed. However, other insulation practices often leave a small air gap after installation potentially allowing for the accumulation of condensation, which can be troublesome. As the project continues to develop, please keep these concerns in mind. We would invite a conversation on the pros and cons of spray foam insulation for this building.

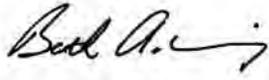
As presented, it appears reasonable that the lighthouse and associated out buildings could be considered a separate undertaking under Section 14.09. Submitting the buildings as a separate undertaking would allow our office to make a formal finding for that defined undertaking while the development of the surrounding Island and access to the mainland reviews continue. If you agree, then for the next submission please enter as a new project in our CRIS system. Let me know if you'd like to discuss.

We would like to review the masonry specifications. Please keep Preservation Briefs #1 and #2 in mind when developing these specifications (<https://www.nps.gov/orgs/1739/preservation-briefs.htm>) Also, proposed new windows should appear double hung, fill the entire masonry

opening and have a meeting rail approximately in the middle. New windows in the lantern, should also full the entire metal opening and not downsize the glazing.

As further design development becomes available, please submit for our review and comment. If you have any questions, you can call or e-mail me at the contact information below.

Sincerely,



Beth A. Cumming
Senior Historic Site Restoration Coordinator
e-mail: beth.cumming@parks.ny.gov

via e-mail only



Memorandum

To: Andrew Farry, PhD
Scientist/Archaeology
Division for Historic Preservation
New York State Parks, Recreation & Historic Preservation

From: Douglas J Pippin, PhD, RPA
Archaeology Services Leader
Environmental Design and Research, DPC

Date: June 5, 2023

Reference: Horse Island and Associated Mainland Property Development
Village of Sackets Harbor, Jefferson County, New York
444 Ontario Street, Phase IB Fieldwork Summary

On behalf of Beardsley Architects + Engineers, Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) conducted Phase IB archaeological survey for the Horse Island and Associated Mainland Property Development Project at Sackets Harbor Battlefield State Historic Site Project (the Project), located in the village of Sackets Harbor, Jefferson County, New York (see Figure 1). The archaeological testing described in this end-of-field memorandum refers only to the area of potential effect (APE) at 444 Ontario Street in Sackets Harbor, and not to the APE on Horse Island.

All archaeological services provided by EDR for the Project were conducted under the supervision of a Registered Professional Archaeologist (RPA) who meets the Secretary of the Interior's Guidelines (per 36 CFR, Part 61) for Professional Qualifications in Archaeology. The work was conducted in accordance with the New York Archaeological Council's *Standards for Cultural Resources Investigations and the Curation of Archaeological Collections in New York State* (the NYAC Standards) and the New York State Historic Preservation Office (NYSHPO) *Phase I Archaeological Report Format Requirements* (the NYSHPO Guidelines), as appropriate.

Phase IB Archaeological Investigation

EDR conducted a Phase IB shovel testing and metal detection survey in the APE at 444 Ontario Street (the Mainland) during two mobilizations in May 2023. The first mobilization occurred on May 1, 2023 and the second on May 15, 2023.

In total, EDR tested approximately 0.5 acres, incorporating both shovel test pits and a metal detector survey. Fieldwork was conducted by Project Archaeologist Moira Magni, assisted by a team of up to eight, EDR archaeology field technicians. Shovel test pits (STP's) were excavated at 15-meter intervals with judgmental shovel tests excavated in the vicinity of the cottage. The metal detection portion of the survey was conducted along transect spaced at approximately 7.5-meters.

EDR did not identify any archaeological sites, features, nor artifacts during the Phase IB survey of the Mainland property. Modern material (i.e. refuse) was recovered—but not collected—in seven total locations. Two of these were discovered in STPs and five through the metal detector survey.

Figure 2 depicts the results of the Phase IB survey on the Mainland in May 2023.

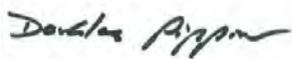
Conclusions

Based on the lack of archaeological finds, it is the opinion of EDR that no previously unrecorded archaeological resources would be impacted by the Project at the Mainland portion of the APE. No further testing is recommended for the Mainland part of the Horse Island and Associated Mainland Property Development Project.

We appreciate the opportunity to assist you with this project. If you have any questions or would like any additional information, please contact me at dpippin@edrdpc.com or (585) 752-6147 or Patrick Heaton at pheaton@edrdpc.com or (315) 471-0688.

Thank you very much for your time.

Sincerely,



Douglas J Pippin, PhD, RPA
EDR Archaeology Services Leader

Attachments:

- Figure 1. Project Site
- Figure 2. Archaeological Survey Results, May 2023

Figure 1. Project Site



Horse Island Phase III Archaeology

Town of Hounsfield, Jefferson County, New York

End of Field Memo - 444 Ontario St

 Area of Potential Effect (APE)

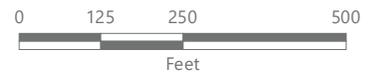


Figure 2. Archaeological Survey Results, May 2023



**Horse Island Phase III
Archaeology**

Town of Hounsfield, Jefferson County, New York

End of Field Memo - 444 Ontario St

Shovel Test

- Modern Material
- No Cultural Material
- + Metal Detector Find - Modern Material

 Driveway

 Metal Detection Coverage

 Area of Potential Effect (APE)





**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

May 2, 2023

Matt Williams
Assistant Engineer
New York State Office of Parks, Recreation, and Historic Preservation
Keewaydin State Park
45165 NYS Route 12
Alexandria Bay, NY 13607

Re: OPRHP/SEQRA
Horse Island and Associated Mainland Property Development
19PR08677

Dear Matt Williams:

Thank you for continuing to consult with the comments of the Division for Historic Preservation (DHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 NYSPRHPL) and OPRHP Agency Protocol HP-PCD-001. These comments are those of the DHP and relate only to Historic/ Cultural resources.

We have reviewed the 95% design development drawings and we offer the following comments:

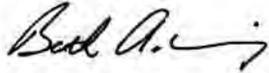
1. Drawing H-101 indicates in note 8 that abrasive/sandblasting is proposed to remove the remaining paint on the brick facades.
 - a. Abrasive cleaning of brick of this age is not appropriate. Such abrasive cleaning has the likelihood of removing the brick's fire skin and permanently damaging the face of the brick. Please re-consider this proposed work. Guidance is available in Preservation Brief 1 "Assessing cleaning and water-repellent treatments for historic masonry buildings" <https://www.nps.gov/orgs/1739/upload/preservation-brief-01-cleaning-masonry.pdf>
 - b. Alternatively, drawing A-204 note F indicates that it is not the intent to remove the existing weathered paint from the brick façade. This is an appropriate treatment but in contrast to drawing H-101.
2. Please provide specifications for masonry cleaning, repointing and unit replacement (both brick and limestone). If the proposed work follows the guidance provided in the National Park Service's preservation briefs, we will have no concerns.
<https://www.nps.gov/orgs/1739/preservation-briefs.htm>

3. Please note that repointing of brick should be carefully done with lime-based mortar due to the age of the brick and the general softness of limestone. If there's been an analysis of the historic mortar, please provide this analysis to support the designated mortar mix.
4. Drawing A-103, note HN4 indicates the addition of exterior foundation waterproofing. It would seem the proposed location for this waterproofing is at the exterior on the limestone foundation materials. This is not a recommended practice. If waterproofing is required, it should be a product that allows the masonry to breath, allowing water to escape and not spall the material. Alternatively, interior surface waterproofing may prove effective.
5. Drawing A-803, window schedule. We recommend all windows be one-over-one unless there is historic documentation illustrating the multipaned configuration proposed.
6. Please see the comments on Archeology from Andrew Farry.

Overall, the designs appear to be coming together nicely. Please provide specifications for review and address these remaining comments.

When ready please submit for our review through CRIS. If you have any questions, you can call or e-mail me at the contact information below.

Sincerely,



Beth A. Cumming
Historic Site Regional Supervisor
e-mail: beth.cumming@parks.ny.gov

via e-mail only



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

October 16, 2023

Margaret Crawford
U.S. Army Corps of Engineers, Buffalo District, Auburn Field Office
7413 County House Road
Auburn, NY 13021

Re: USACE
Horse Island and Associated Mainland Property Development
19PR08677

Dear Margaret Crawford:

Thank you for continuing to consult with the New York State Historic Preservation Office (SHPO). We have reviewed the provided documentation in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources.

We have reviewed the 95% design development drawings and we offer the following comments:

1. Drawing H-101 indicates in note 8 that abrasive/sandblasting is proposed to remove the remaining paint on the brick facades.
 - a. Abrasive cleaning of brick of this age is not appropriate. Such abrasive cleaning has the likelihood of removing the brick's fire skin and permanently damaging the face of the brick. Please re-consider this proposed work. Guidance is available in Preservation Brief 1 "Assessing cleaning and water-repellent treatments for historic masonry buildings" <https://www.nps.gov/orgs/1739/upload/preservation-brief-01-cleaning-masonry.pdf>
 - b. Alternatively, drawing A-204 note F indicates that it is not the intent to remove the existing weathered paint from the brick façade. This is an appropriate treatment but in contrast to drawing H-101.
2. Please provide specifications for masonry cleaning, repointing and unit replacement (both brick and limestone). If the proposed work follows the guidance provided in the National Park Service's preservation briefs, we will have no concerns. <https://www.nps.gov/orgs/1739/preservation-briefs.htm>
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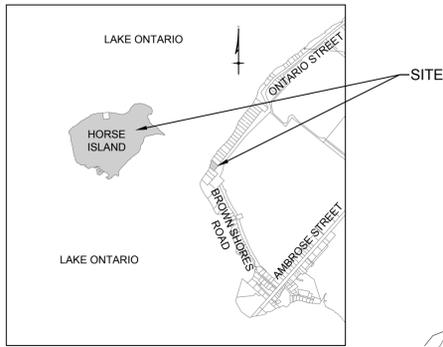
Sincerely,



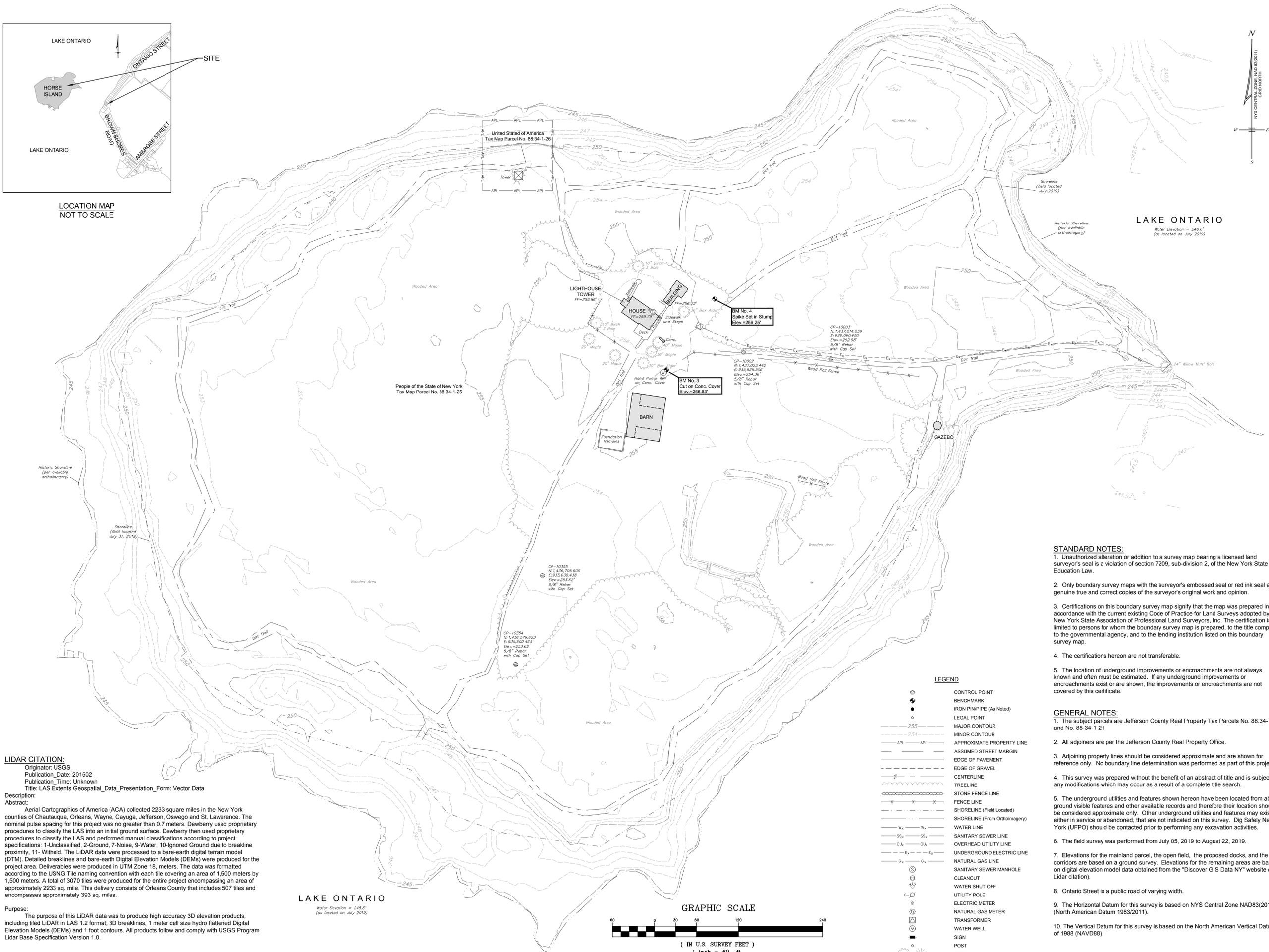
Beth A. Cumming
Historic Site Regional Supervisor
e-mail: beth.cumming@parks.ny.gov

via e-mail only

SURVEYS



LOCATION MAP
NOT TO SCALE



LIDAR CITATION:
 Originator: USGS
 Publication Date: 201502
 Publication Time: Unknown
 Title: LAS Exents Geospatial_Data_Presentation_Form: Vector Data

Description:
 Abstract:
 Aerial Cartographics of America (ACA) collected 2233 square miles in the New York counties of Chautauqua, Orleans, Wayne, Cayuga, Jefferson, Oswego and St. Lawrence. The nominal pulse spacing for this project was no greater than 0.7 meters. Dewberry used proprietary procedures to classify the LAS into an initial ground surface. Dewberry then used proprietary procedures to classify the LAS and performed manual classifications according to project specifications: 1-Unclassified, 2-Ground, 7-Noise, 9-Water, 10-Ignored Ground due to breakline proximity, 11-Withheld. The LIDAR data were processed to a bare-earth digital terrain model (DTM). Detailed breaklines and bare-earth Digital Elevation Models (DEMs) were produced for the project area. Deliverables were produced in UTM Zone 18, meters. The data was formatted according to the USNG Tile naming convention with each tile covering an area of 1,500 meters by 1,500 meters. A total of 3070 tiles were produced for the entire project encompassing an area of approximately 2233 sq. mile. This delivery consists of Orleans County that includes 507 tiles and encompasses approximately 393 sq. miles.

Purpose:
 The purpose of this LIDAR data was to produce high accuracy 3D elevation products, including tiled LIDAR in LAS 1.2 format, 3D breaklines, 1 meter cell size hydro flattened Digital Elevation Models (DEMs) and 1 foot contours. All products follow and comply with USGS Program Lidar Base Specification Version 1.0.

LEGEND

	CONTROL POINT
	BENCHMARK
	IRON PIN/PIPE (As Noted)
	LEGAL POINT
	MAJOR CONTOUR
	MINOR CONTOUR
	APPROXIMATE PROPERTY LINE
	ASSUMED STREET MARGIN
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	CENTERLINE
	TREELINE
	STONE FENCE LINE
	FENCE LINE
	SHORELINE (Field Located)
	SHORELINE (From Orthoimagery)
	WATER LINE
	SANITARY SEWER LINE
	OVERHEAD UTILITY LINE
	UNDERGROUND ELECTRIC LINE
	NATURAL GAS LINE
	SANITARY SEWER MANHOLE
	CLEANOUT
	WATER SHUT OFF
	UTILITY POLE
	ELECTRIC METER
	NATURAL GAS METER
	TRANSFORMER
	WATER WELL
	SIGN
	POST
	TREES

- STANDARD NOTES:**
1. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.
 2. Only boundary survey maps with the surveyor's embossed seal or red ink seal are genuine true and correct copies of the surveyor's original work and opinion.
 3. Certifications on this boundary survey map signify that the map was prepared in accordance with the current existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. The certification is limited to persons for whom the boundary survey map is prepared, to the title company, to the governmental agency, and to the lending institution listed on this boundary survey map.
 4. The certifications hereon are not transferable.
 5. The location of underground improvements or encroachments are not always known and often must be estimated. If any underground improvements or encroachments exist or are shown, the improvements or encroachments are not covered by this certificate.

- GENERAL NOTES:**
1. The subject parcels are Jefferson County Real Property Tax Parcels No. 88-34-1-25 and No. 88-34-1-21
 2. All adjoining are per the Jefferson County Real Property Office.
 3. Adjoining property lines should be considered approximate and are shown for reference only. No boundary line determination was performed as part of this project.
 4. This survey was prepared without the benefit of an abstract of title and is subject to any modifications which may occur as a result of a complete title search.
 5. The underground utilities and features shown hereon have been located from above ground visible features and other available records and therefore their location should be considered approximate only. Other underground utilities and features may exist, either in service or abandoned, that are not indicated on this survey. Dig Safely New York (JFPO) should be contacted prior to performing any excavation activities.
 6. The field survey was performed from July 05, 2019 to August 22, 2019.
 7. Elevations for the mainland parcel, the open field, the proposed docks, and the trail corridors are based on a ground survey. Elevations for the remaining areas are based on digital elevation model data obtained from the "Discover GIS Data NY" website (see Lidar citation).
 8. Ontario Street is a public road of varying width.
 9. The Horizontal Datum for this survey is based on NYS Central Zone NAD83(2011) (North American Datum 1983/2011).
 10. The Vertical Datum for this survey is based on the North American Vertical Datum of 1988 (NAVD88).



522 Bradley Street
 Watertown, New York 13601

aubertinecurrier.com

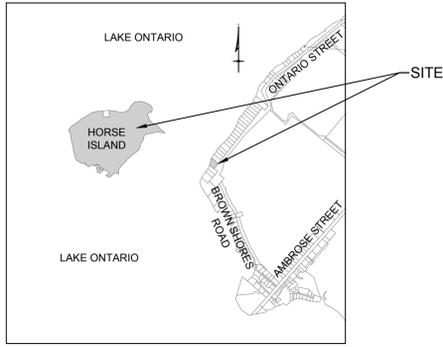
Phone: (315)782-2005
 Fax: (315)782-1472

The above Architect, Engineer or Land Surveyor states that to the best of his or her knowledge, information and belief, the plans and specifications are in accordance with applicable requirements of New York State. It is a violation of New York State Law for any person, unless acting under the direct supervision of a Registered Architect, Licensed Professional Engineer or Licensed Land Surveyor to alter this document in any way. If altered, such licensee shall affix his or her seal and the notification "altered by" followed by his or signature, date and a specific description of the alteration.
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TOPOGRAPHIC SURVEY OF HORSE ISLAND and the LANDS of CIVIL WAR PRESERVATION TRUST
 444 ONTARIO STREET and HORSE ISLAND
 VILLAGE of SACKETS HARBOR
 JEFFERSON COUNTY, NEW YORK

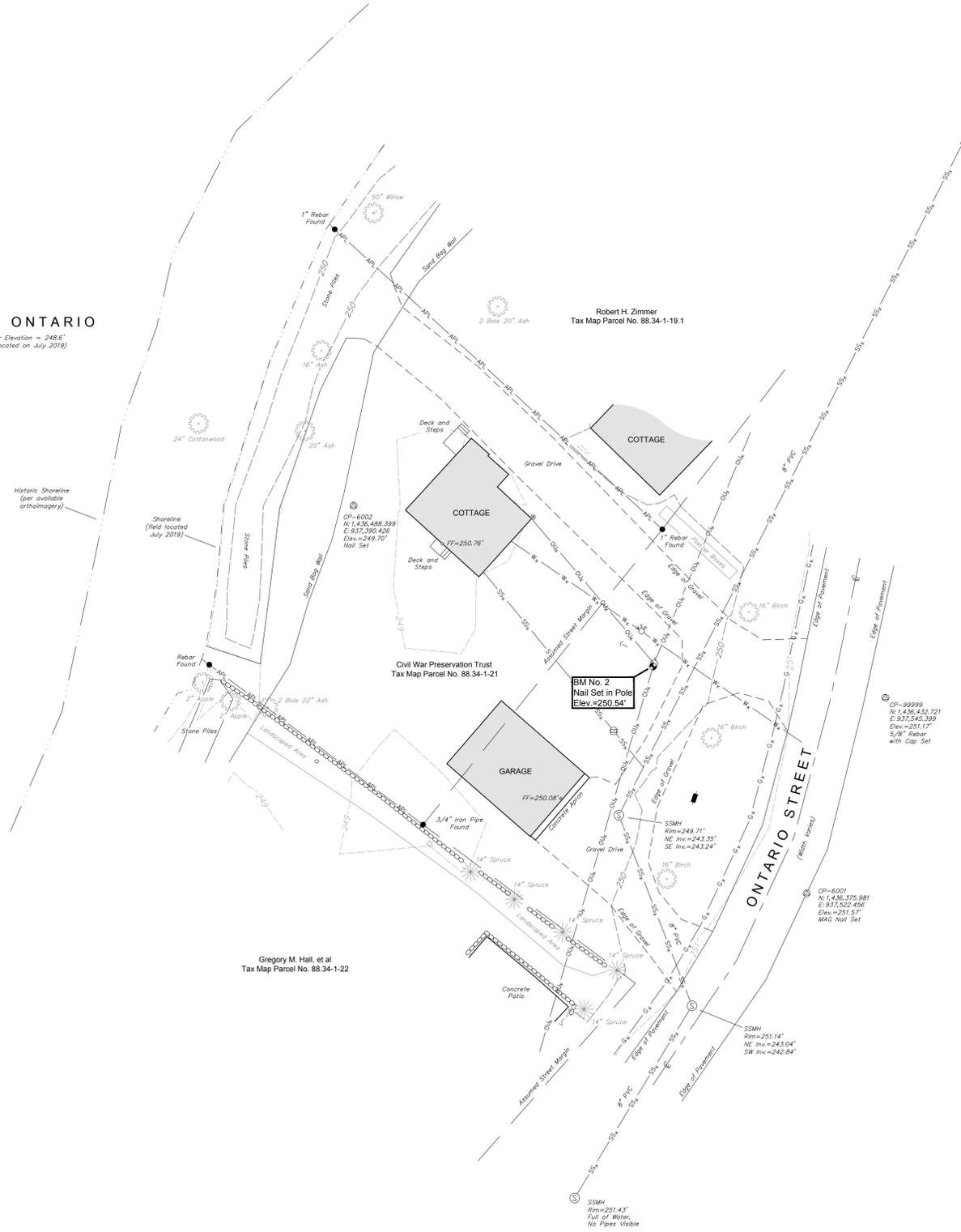
PROJECT NO:	2019-108
SCALE:	1"=60'
DRAWN BY:	J.D.B.
CHECKED BY:	P.D.B.
ISSUE DATE:	August 29, 2019

2019-108 HISP-VF-SB001.DWG
VF-101



LOCATION MAP
NOT TO SCALE

LAKE ONTARIO
Water Elevation = 248.6'
(as located on July 2019)



STANDARD NOTES:

1. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.
2. Only boundary survey maps with the surveyor's embossed seal or red ink seal are genuine true and correct copies of the surveyor's original work and opinion.
3. Certifications on this boundary survey map signify that the map was prepared in accordance with the current existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. The certification is limited to persons for whom the boundary survey map is prepared, to the title company, to the governmental agency, and to the lending institution listed on this boundary survey map.
4. The certifications hereon are not transferable.
5. The location of underground improvements or encroachments are not always known and often must be estimated. If any underground improvements or encroachments exist or are shown, the improvements or encroachments are not covered by this certificate.

GENERAL NOTES:

1. The subject parcels are Jefferson County Real Property Tax Parcels No. 88.34-1-25 and No. 88.34-1-21
2. All adjoining are per the Jefferson County Real Property Office.
3. Adjoining property lines should be considered approximate and are shown for reference only. No boundary line determination was performed as part of this project.
4. This survey was prepared without the benefit of an abstract of title and is subject to any modifications which may occur as a result of a complete title search.
5. The underground utilities and features shown hereon have been located from above ground visible features and other available records and therefore their location should be considered approximate only. Other underground utilities and features may exist, either in service or abandoned, that are not indicated on this survey. Dig Safely New York (UFPO) should be contacted prior to performing any excavation activities.
6. The field survey was performed from July 05, 2019 to August 22, 2019.
7. Elevations for the mainland parcel, the open field, the proposed docks, and the trail corridors are based on a ground survey. Elevations for the remaining areas are based on digital elevation model data obtained from the "Discover GIS Data NY" website (see Lidar citation).
8. Ontario Street is a public road of varying width.
9. The Horizontal Datum for this survey is based on NYS Central Zone NAD83(2011) (North American Datum 1983/2011).
10. The Vertical Datum for this survey is based on the North American Vertical Datum of 1988 (NAVD88).

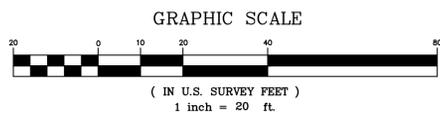
LIDAR CITATION:

Originator: USGS
Publication Date: 201502
Publication Time: Unknown
Title: LAS Extents Geospatial_Data_Presentation_Form: Vector Data

Description:
Abstract:
Aerial Cartographics of America (ACA) collected 2233 square miles in the New York counties of Chautauqua, Orleans, Wayne, Cayuga, Jefferson, Oswego and St. Lawrence. The nominal pulse spacing for this project was no greater than 0.7 meters. Dewberry used proprietary procedures to classify the LAS into an initial ground surface. Dewberry then used proprietary procedures to classify the LAS and performed manual classifications according to project specifications: 1-Unclassified, 2-Ground, 7-Noise, 9-Water, 10-Ignored Ground due to breakline proximity, 11-Withheld. The LIDAR data were processed to a bare-earth digital terrain model (DTM). Detailed breaklines and bare-earth Digital Elevation Models (DEMs) were produced for the project area. Deliverables were produced in UTM Zone 18, meters. The data was formatted according to the USNG Tile naming convention with each tile covering an area of 1,500 meters by 1,500 meters. A total of 3070 tiles were produced for the entire project encompassing an area of approximately 2233 sq. mile. This delivery consists of Orleans County that includes 507 tiles and encompasses approximately 393 sq. miles.

Purpose:
The purpose of this LIDAR data was to produce high accuracy 3D elevation products, including tiled LIDAR in LAS 1.2 format, 3D breaklines, 1 meter cell size hydro flattened Digital Elevation Models (DEMs) and 1 foot contours. All products follow and comply with USGS Program Lidar Base Specification Version 1.0.

LEGEND	
	CONTROL POINT
	BENCHMARK
	IRON PIN/PIPE (As Noted)
	LEGAL POINT
	MAJOR CONTOUR
	MINOR CONTOUR
	APPROXIMATE PROPERTY LINE
	ASSUMED STREET MARGIN
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	CENTERLINE
	TREELINE
	STONE FENCE LINE
	FENCE LINE
	SHORELINE (Field Located)
	SHORELINE (From Orthoimagery)
	WATER LINE
	SANITARY SEWER LINE
	OVERHEAD UTILITY LINE
	UNDERGROUND ELECTRIC LINE
	NATURAL GAS LINE
	SANITARY SEWER MANHOLE
	CLEANOUT
	WATER SHUT OFF
	UTILITY POLE
	ELECTRIC METER
	NATURAL GAS METER
	TRANSFORMER
	WATER WELL
	SIGN
	POST
	TREES



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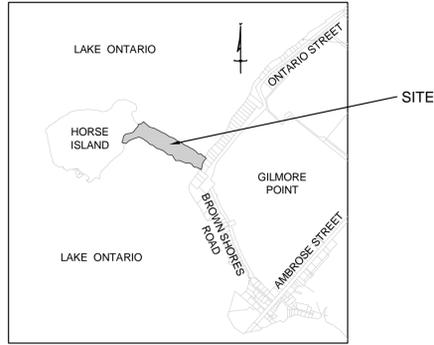
TOPOGRAPHIC SURVEY OF HORSE ISLAND and the LANDS of CIVIL WAR PRESERVATION TRUST
444 ONTARIO STREET and HORSE ISLAND
VILLAGE of SACKETS HARBOR
JEFFERSON COUNTY, NEW YORK

PROJECT NO: 2019-108
SCALE: 1"=20'
DRAWN BY: J.D.B.
CHECKED BY: P.D.B.

ISSUE DATES:
August 29, 2019

2019-108 HISP-VF-SB001.DWG

VF-102



LOCATION MAP
NOT TO SCALE

STANDARD NOTES:

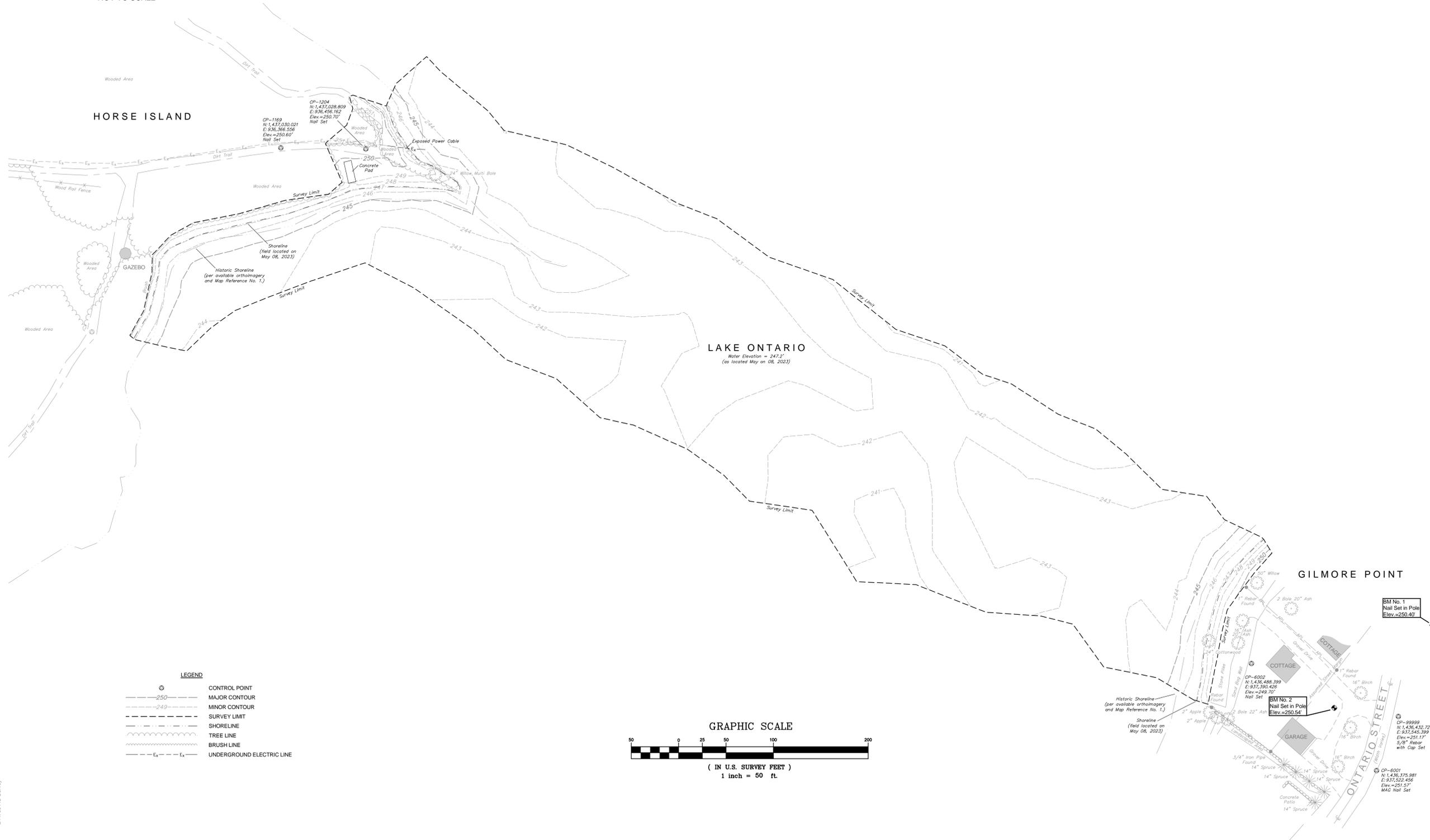
1. Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law.
2. Only boundary survey maps with the surveyor's embossed seal or red ink seal are genuine true and correct copies of the surveyor's original work and opinion.
3. Certifications on this boundary survey map signify that the map was prepared in accordance with the current existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. The certification is limited to persons for whom the boundary survey map is prepared, to the title company, to the governmental agency, and to the lending institution listed on this boundary survey map.
4. The certifications hereon are not transferable.
5. The location of underground improvements or encroachments are not always known and often must be estimated. If any underground improvements or encroachments exist or are shown, the improvements or encroachments are not covered by this certificate.

GENERAL NOTES:

1. The underground utilities and features shown hereon have been located from above ground visible features and other available records and therefore their location should be considered approximate only. Other underground utilities and features may exist, either in service or abandoned, that are not indicated on this survey. Dig Safely New York (JFPO) should be contacted prior to performing any excavation activities.
2. Background information shown per Map Reference No. 1.
3. The field survey was performed on May 08, 2023.
4. The Horizontal Datum for this survey is based on NYS Central Zone NAD83(2011) (North American Datum 1983/2011).
5. The Vertical Datum for this survey is based on the North American Vertical Datum of 1988 (NAVD88).

MAP REFERENCE:

1. Topographic Survey of Horse Island and the Lands of Civil War Preservation Trust, 444 Ontario Street and Horse Island, Village of Sackets Harbor, Jefferson County, New York, dated August 29, 2019, prepared by Aubertine and Currier Architects, Engineers and Land Surveyors, PLLC.



Plot Date: May 12, 2023 - 8:06am
 Filename: 2019-108.001 HIUC-VF-SB001.DWG
 Coordinate System: NAD83 New York State Plane, Central Zone, US Foot
 Sheet #: VP-101
 24 x 36 A/C Survey

**TOPOGRAPHIC SURVEY MAP for
 UNDERWATER UTILITY CORRIDOR
 444 ONTARIO STREET and HORSE ISLAND
 VILLAGE of SACKETS HARBOR and TOWN of HOUNSFIELD
 JEFFERSON COUNTY, NEW YORK**

PROJECT NO:	2019-108.001
SCALE:	1"=50'
DRAWN BY:	D.B.S.
CHECKED BY:	J.D.B.
ISSUE DATES:	May 12, 2023

2019-108.001 HIUC-VF-SB001.dwg

VF-101

SPECIFICATIONS BOUND SEPARATELY

DRAWINGS BOUND SEPARATELY